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(21) International Application Number: PCT/US97/20313 (22) International Filing Date: 5 November 1997 (05.11.97) (30) Priority Data: 60/030,455 6 November 1996 (06.11.96) US (71) Applicant (for all designated States except US): WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH [US/US]; Nine Cambridge Center, Cambridge, MA 02142 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): LANDER, Eric, S. [US/US]; 151 Bishop Allen Drive, Cambridge, MA 02138 (US). WANG, David [CN/US]; Apartment 314, 276 Mass- achusetts Avenue, Arlington, MA 02173 (US). HUDSON, Thomas [CA/US]; 361 Metcalfe Avenue, Westmount, Quebec H3Z 2J2 (CA). (74) Agents: GRANAHAN, Patricia et al.; Hamilton, Brook, Smith & Reynolds, Two Militia Drive, Lexington, MA 02173 (US).		(81) Designated States: JP, US, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>Without international search report and to be republished upon receipt of that report.</i>
(54) Title: BIALLELIC MARKERS (57) Abstract The invention provides nucleic acid segments of the human genome including polymorphic sites. Allele-specific primers and probes hybridizing to regions flanking these sites are also provided. The nucleic acids, primers and probes are used in applications such as forensics, paternity testing, medicine and genetic analysis.		

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BIALLELIC MARKERS

RELATED APPLICATIONS

This application claims priority to U.S. provisional application Serial No. 60/030,455, filed November 6, 1996, the entire teachings of which are incorporated herein by reference.

BACKGROUND OF THE INVENTION

The genomes of all organisms undergo spontaneous mutation in the course of their continuing evolution, generating variant forms of progenitor sequences (Gusella, *Ann. Rev. Biochem.* 55, 831-854 (1986)). The variant form may confer an evolutionary advantage or disadvantage relative to a progenitor form or may be neutral. In some instances, a variant form confers a lethal disadvantage and is not transmitted to subsequent generations of the organism. In other instances, a variant form confers an evolutionary advantage to the species and is eventually incorporated into the DNA of many or most members of the species and effectively becomes the progenitor form. In many instances, both progenitor and variant form(s) survive and co-exist in a species population. The coexistence of multiple forms of a sequence gives rise to polymorphisms.

Several different types of polymorphism have been reported. A restriction fragment length polymorphism (RFLP) is a variation in DNA sequence that alters the length of a restriction fragment (Botstein et al., *Am. J. Hum. Genet.* 32, 314-331 (1980)). The restriction fragment length polymorphism may create or delete a restriction site, thus changing the length of the restriction fragment.

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RFLPs have been widely used in human and animal genetic analyses (see WO 90/13668; W090/11369; Donis-Keller, *Cell* 51, 319-337 (1987); Lander et al., *Genetics* 121, 85-99 (1989)). When a heritable trait can be linked to a particular RFLP, the presence of the RFLP in an individual can be used to predict the likelihood that the animal will also exhibit the trait.

Other polymorphisms take the form of short tandem repeats (STRs) that include tandem di-, tri- and tetra-nucleotide repeated motifs. These tandem repeats are also referred to as variable number tandem repeat (VNTR) polymorphisms. VNTRs have been used in identity and paternity analysis (US 5,075,217; Armour et al., *FEBS Lett.* 307, 113-115 (1992); Horn et al., W0 91/14003; Jeffreys, EP 370,719), and in a large number of genetic mapping studies.

Other polymorphisms take the form of single nucleotide variations between individuals of the same species. Such polymorphisms are far more frequent than RFLPs, STRs and VNTRs. Some single nucleotide polymorphisms occur in protein-coding sequences, in which case, one of the polymorphic forms may give rise to the expression of a defective or other variant protein and, potentially, a genetic disease. Examples of genes, in which polymorphisms within coding sequences give rise to genetic disease include β -globin (sickle cell anemia) and CFTR (cystic fibrosis). Other single nucleotide polymorphisms occur in noncoding regions. Some of these polymorphisms may also result in defective protein expression (e.g., as a result of defective splicing). Other single nucleotide polymorphisms have no phenotypic effects.

Single nucleotide polymorphisms can be used in the same manner as RFLPs and VNTRs, but offer several advantages. Single nucleotide polymorphisms occur with greater

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frequency and are spaced more uniformly throughout the genome than other forms of polymorphism. The greater frequency and uniformity of single nucleotide polymorphisms means that there is a greater probability that such a polymorphism will be found in close proximity to a genetic locus of interest than would be the case for other polymorphisms. The different forms of characterized single nucleotide polymorphisms are often easier to distinguish than other types of polymorphism (e.g., by use of assays employing allele-specific hybridization probes or primers).

Only a small percentage of the total repository of polymorphisms in humans and other organisms has been identified. The limited number of polymorphisms identified to date is due to the large amount of work required for their detection by conventional methods. For example, a conventional approach to identifying polymorphisms might be to sequence the same stretch of DNA in a population of individuals by dideoxy sequencing. In this type of approach, the amount of work increases in proportion to both the length of sequence and the number of individuals in a population and becomes impractical for large stretches of DNA or large numbers of persons.

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SUMMARY OF THE INVENTION

The invention provides nucleic acid sequences comprising nucleic acid segments of from about 10 to about 200 bases as shown in the Table, column 7, including a polymorphic site. Complements of these segments are also included. The segments can be DNA or RNA, and can be double- or single-stranded. Segments can be, for example, 10-20, 10-50 or 10-100 bases long. Preferred segments include a biallelic polymorphic site. The base occupying the polymorphic site in the segments can be the reference (Table, column 3) or an alternative base (Table, column 4).

The invention further provides allele-specific oligonucleotides that hybridize to a segment of a fragment shown in the Table, column 7, or its complement. These oligonucleotides can be probes or primers. Also provided are isolated nucleic acids comprising a sequence shown in the Table, column 7, or the complement thereto, in which the polymorphic site within the sequence is occupied by a base other than the reference base shown in the Table, column 3.

The invention further provides a method of analyzing a nucleic acid from an individual. The method determines which base is present at any one of the polymorphic sites shown in the Table. Optionally, a set of bases occupying a set of the polymorphic sites shown in the Table is determined. This type of analysis can be performed on a number of individuals, who are tested for the presence of a disease phenotype. The presence or absence of disease phenotype is then correlated with a base or set of bases present at the polymorphic sites in the individuals tested.

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DETAILED DESCRIPTION OF THE INVENTION
DEFINITIONS

An oligonucleotide can be DNA or RNA, and single- or double-stranded. Oligonucleotides can be naturally occurring or synthetic, but are typically prepared by synthetic means. The oligonucleotides of the present invention can comprise all of an oligonucleotide sequence presented in column 7 of the Table or a segment of such an oligonucleotide which includes a polymorphic site.

10 Oligonucleotides can be all of a nucleic acid segment as represented in column 7 of the Table; a nucleic acid sequence which comprises a nucleic acid segment represented in column 7 of the Table and additional nucleic acids (present at either or both ends of a nucleic acid segment of column 7); or a portion (fragment) of a nucleic acid segment represented in column 7 of the Table which includes a polymorphic site. Preferred oligonucleotides of the invention include segments of DNA, or their complements, which include any one of the polymorphic sites shown in the

20 Table. The segments can be between 5 and 250 bases, and, in specific embodiments, are between 5-10, 5-20, 10-20, 10-50, 20-50 or 10-100 bases. The polymorphic site can occur within any position of the segment. The segments can be from any of the allelic forms of DNA shown in the Table.

25 Hybridization probes are oligonucleotides which bind in a base-specific manner to a complementary strand of nucleic acid. Such probes include peptide nucleic acids, as described in Nielsen et al., *Science* 254, 1497-1500 (1991).

30 As used herein, the term primer refers to a single-stranded oligonucleotide which acts as a point of initiation of template-directed DNA synthesis under appropriate conditions (e.g., in the presence of four different nucleoside triphosphates and an agent for

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polymerization, such as, DNA or RNA polymerase or reverse transcriptase) in an appropriate buffer and at a suitable temperature. The appropriate length of a primer depends on the intended use of the primer, but typically ranges from 5 15 to 30 nucleotides. Short primer molecules generally require cooler temperatures to form sufficiently stable hybrid complexes with the template. A primer need not reflect the exact sequence of the template, but must be sufficiently complementary to hybridize with a template.

10 The term primer site refers to the area of the target DNA to which a primer hybridizes. The term primer pair refers to a set of primers including a 5' (upstream) primer that hybridizes with the 5' end of the DNA sequence to be amplified and a 3' (downstream) primer that hybridizes with 15 the complement of the 3' end of the sequence to be amplified.

As used herein, linkage describes the tendency of genes, alleles, loci or genetic markers to be inherited together as a result of their location on the same 20 chromosome. It can be measured by percent recombination between the two genes, alleles, loci or genetic markers.

As used herein, polymorphism refers to the occurrence of two or more genetically determined alternative sequences or alleles in a population. A polymorphic marker or site 25 is the locus at which divergence occurs. Preferred markers have at least two alleles, each occurring at frequency of greater than 1%, and more preferably greater than 10% or 20% of a selected population. A polymorphic locus may be as small as one base pair. Polymorphic markers include 30 restriction fragment length polymorphisms, variable number of tandem repeats (VNTR's), hypervariable regions, minisatellites, dinucleotide repeats, trinucleotide repeats, tetranucleotide repeats, simple sequence repeats,

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and insertion elements such as Alu. The first identified allelic form is arbitrarily designated as the reference form and other allelic forms are designated as alternative or variant alleles. The allelic form occurring most frequently in a selected population is sometimes referred to as the wildtype form. Diploid organisms may be homozygous or heterozygous for allelic forms. A diallelic or biallelic polymorphism has two forms. A triallelic polymorphism has three forms.

10 A single nucleotide polymorphism occurs at a polymorphic site occupied by a single nucleotide, which is the site of variation between allelic sequences. -The site is usually preceded by and followed by highly conserved sequences of the allele (e.g., sequences that vary in less than 1/100 or 1/1000 members of the populations).

A single nucleotide polymorphism usually arises due to substitution of one nucleotide for another at the polymorphic site. A transition is the replacement of one purine by another purine or one pyrimidine by another pyrimidine. A transversion is the replacement of a purine by a pyrimidine or vice versa. Single nucleotide polymorphisms can also arise from a deletion of a nucleotide or an insertion of a nucleotide relative to a reference allele. Typically the polymorphic site is occupied by a base other than the reference base. For example, where the reference allele contains the base "T" at the polymorphic site, the altered allele can contain a "C", "G" or "A" at the polymorphic site.

Hybridizations are usually performed under stringent conditions, for example, at a salt concentration of no more than 1 M and a temperature of at least 25°C. For example, conditions of 5X SSPE (750 mM NaCl, 50 mM NaPhosphate, 5 mM EDTA, pH 7.4) and a temperature of 25-30°C, or equivalent

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conditions, are suitable for allele-specific probe hybridizations. Equivalent conditions can be determined by varying one or more of the parameters given as an example, as known in the art, while maintaining a similar degree of identity or similarity between the target nucleotide sequence and the primer or probe used.

The term "isolated" is used herein to indicate that the material in question exists in a physical milieu distinct from that in which it occurs in nature. For example, an isolated nucleic acid of the invention may be substantially isolated with respect to the complex cellular milieu in which it naturally occurs. In some instances, the isolated material will form part of a composition (for example, a crude extract containing other substances), buffer system or reagent mix. In other circumstance, the material may be purified to essential homogeneity, for example as determined by PAGE or column chromatography such as HPLC. Preferably, an isolated nucleic acid comprises at least about 50, 80 or 90 percent (on a molar basis) of all macromolecular species present.

I. Novel Polymorphisms of the Invention

The novel polymorphisms of the invention are listed in the Table. The first column of the Table lists the names assigned to the fragments in which the polymorphisms occur. The fragments are all human genomic fragments. The sequence of one allelic form of each of the fragments (arbitrarily referred to as the prototypical or reference form) has been previously published. These sequences are listed at <http://www-genome.wi.mit.edu/> (all STS's (sequence tag sites)); <http://shgc.stanford.edu> (Stanford STS's); and <http://ww.tigr.org/> (TIGR STS's). The Web sites also list primers for amplification of the fragments,

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and the genomic location of fragments. Some fragments are expressed sequence tags, and some are random genomic fragments. All information in the websites concerning the fragments listed in the Table is incorporated by reference
5 in its entirety for all purposes.

The second column lists the position in the fragment in which a polymorphic site has been found. Positions are numbered consecutively with the first base of the fragment sequence as listed in one of the above databases being
10 assigned the number one. The third column lists the base occupying the polymorphic site in the sequence in the data base. This base is arbitrarily designated the reference or prototypical form, but it is not necessarily the most frequently occurring form. The fourth column in the Table
15 lists the alternative base(s) at the polymorphic site. The fifth column of the Table lists a 5' (upstream or forward) primer that hybridizes with the 5' end of the DNA sequence to be amplified. The sixth column of the Table lists a 3' (downstream or reverse) primer that hybridizes with the
20 complement of the 3' end of the sequence to be amplified. The seventh column of the Table lists a number of bases of sequence on either side of the polymorphic site in each fragment. The indicated sequences can be either DNA or RNA. In the latter, the T's shown in the Table are
25 replaced by U's. The base occupying the polymorphic site is indicated in EUPAC-IUB ambiguity code.

II. Analysis of Polymorphisms

A. Preparation of Samples

Polymorphisms are detected in a target nucleic acid
30 from an individual being analyzed. For assay of genomic DNA, virtually any biological sample (other than pure red blood cells) is suitable. For example, convenient tissue

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samples include whole blood, semen, saliva, tears, urine, fecal material, sweat, buccal, skin and hair. For assay of cDNA or mRNA, the tissue sample must be obtained from an organ in which the target nucleic acid is expressed. For example, if the target nucleic acid is a cytochrome P450, the liver is a suitable source.

Many of the methods described below require amplification of DNA from target samples. This can be accomplished by e.g., PCR. See generally *PCR Technology: Principles and Applications for DNA Amplification* (ed. H.A. Erlich, Freeman Press, NY, NY, 1992); *PCR Protocols: A Guide to Methods and Applications* (eds. Innis, et al., Academic Press, San Diego, CA, 1990); Mattila et al., *Nucleic Acids Res.* 19, 4967 (1991); Eckert et al., *PCR Methods and Applications* 1, 17 (1991); PCR (eds. McPherson et al., IRL Press, Oxford); and U.S. Patent 4,683,202.

Other suitable amplification methods include the ligase chain reaction (LCR) (see Wu and Wallace, *Genomics* 4, 560 (1989), Landegren et al., *Science* 241, 1077 (1988), transcription amplification (Kwoh et al., *Proc. Natl. Acad. Sci. USA* 86, 1173 (1989)), and self-sustained sequence replication (Guatelli et al., *Proc. Nat. Acad. Sci. USA*, 87, 1874 (1990)) and nucleic acid based sequence amplification (NASBA). The latter two amplification methods involve isothermal reactions based on isothermal transcription, which produce both single stranded RNA (ssRNA) and double stranded DNA (dsDNA) as the amplification products in a ratio of about 30 or 100 to 1, respectively.

B. Detection of Polymorphisms in Target DNA

There are two distinct types of analysis of target DNA for detecting polymorphisms. The first type of analysis,

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sometimes referred to as de novo characterization, is carried out to identify polymorphic sites not previously characterized (i.e., to identify new polymorphisms). This analysis compares target sequences in different individuals to identify points of variation, i.e., polymorphic sites. By analyzing groups of individuals representing the greatest ethnic diversity among humans and greatest breed and species variety in plants and animals, patterns characteristic of the most common alleles/haplotypes of the locus can be identified, and the frequencies of such alleles/haplotypes in the population can be determined. Additional allelic frequencies can be determined for subpopulations characterized by criteria such as geography, race, or gender. The de novo identification of polymorphisms of the invention is described in the Examples section. The second type of analysis determines which form(s) of a characterized (known) polymorphism are present in individuals under test. There are a variety of suitable procedures, which are discussed in turn.

1. Allele-Specific Probes

The design and use of allele-specific probes for analyzing polymorphisms is described by e.g., Saiki et al., *Nature* 324, 163-166 (1986); Dattagupta, EP 235,726, Saiki, WO 89/11548. Allele-specific probes can be designed that hybridize to a segment of target DNA from one individual but do not hybridize to the corresponding segment from another individual due to the presence of different polymorphic forms in the respective segments from the two individuals. Hybridization conditions should be sufficiently stringent that there is a significant difference in hybridization intensity between alleles, and preferably an essentially binary response, whereby a probe

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hybridizes to only one of the alleles. Some probes are designed to hybridize to a segment of target DNA such that the polymorphic site aligns with a central position (e.g., in a 15-mer at the 7 position; in a 16-mer, at either the 8 or 9 position) of the probe. This design of probe achieves good discrimination in hybridization between different allelic forms.

Allele-specific probes are often used in pairs, one member of a pair showing a perfect match to a reference form of a target sequence and the other member showing a perfect match to a variant form. Several pairs of probes can then be immobilized on the same support for simultaneous analysis of multiple polymorphisms within the same target sequence.

2. Tiling Arrays

The polymorphisms can also be identified by hybridization to nucleic acid arrays, some examples of which are described in WO 95/11995. One form of such arrays is described in the Examples section in connection with de novo identification of polymorphisms. The same array or a different array can be used for analysis of characterized polymorphisms. WO 95/11995 also describes subarrays that are optimized for detection of a variant form of a precharacterized polymorphism. Such a subarray contains probes designed to be complementary to a second reference sequence, which is an allelic variant of the first reference sequence. The second group of probes is designed by the same principles as described in the Examples, except that the probes exhibit complementarity to the second reference sequence. The inclusion of a second group (or further groups) can be particularly useful for analyzing short subsequences of the primary reference

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sequence in which multiple mutations are expected to occur within a short distance commensurate with the length of the probes (e.g., two or more mutations within 9 to 21 bases).

3. Allele-Specific Primers

5 An allele-specific primer hybridizes to a site on target DNA overlapping a polymorphism and only primes amplification of an allelic form to which the primer exhibits perfect complementarity. See Gibbs, *Nucleic Acid Res.* 17, 2427-2448 (1989). This primer is used in
10 conjunction with a second primer which hybridizes at a distal site. Amplification proceeds from the two-primers, resulting in a detectable product which indicates the particular allelic form is present. A control is usually performed with a second pair of primers, one of which shows
15 a single base mismatch at the polymorphic site and the other of which exhibits perfect complementarity to a distal site. The single-base mismatch prevents amplification and no detectable product is formed. The method works best when the mismatch is included in the 3'-most position of
20 the oligonucleotide aligned with the polymorphism because this position is most destabilizing to elongation from the primer (see, e.g., WO 93/22456).

4. Direct-Sequencing

The direct analysis of the sequence of polymorphisms of
25 the present invention can be accomplished using either the dideoxy chain termination method or the Maxam Gilbert method (see Sambrook et al., *Molecular Cloning, A Laboratory Manual* (2nd Ed., CSHP, New York 1989); Zyskind et al., *Recombinant DNA Laboratory Manual*, (Acad. Press,
30 1988)).

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5. Denaturing Gradient Gel Electrophoresis

Amplification products generated using the polymerase chain reaction can be analyzed by the use of denaturing gradient gel electrophoresis. Different alleles can be identified based on the different sequence-dependent melting properties and electrophoretic migration of DNA in solution. Erlich, ed., *PCR Technology, Principles and Applications for DNA Amplification*, (W.H. Freeman and Co, New York, 1992), Chapter 7.

10 6. Single-Strand Conformation Polymorphism Analysis

Alleles of target sequences can be differentiated using single-strand conformation polymorphism analysis, which identifies base differences by alteration in electrophoretic migration of single stranded PCR products, as described in Orita et al., *Proc. Nat. Acad. Sci.* 86, 2766-2770 (1989). Amplified PCR products can be generated as described above, and heated or otherwise denatured, to form single stranded amplification products. Single-stranded nucleic acids may refold or form secondary structures which are partially dependent on the base sequence. The different electrophoretic mobilities of single-stranded amplification products can be related to base-sequence differences between alleles of target sequences.

25 III. Methods of Use

After determining polymorphic form(s) present in an individual at one or more polymorphic sites, this information can be used in a number of methods.

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A. Forensics

Determination of which polymorphic forms occupy a set of polymorphic sites in an individual identifies a set of polymorphic forms that distinguishes the individual. See
5 generally National Research Council, *The Evaluation of Forensic DNA Evidence* (Eds. Pollard et al., National Academy Press, DC, 1996). The more sites that are analyzed, the lower the probability that the set of polymorphic forms in one individual is the same as that in
10 an unrelated individual. Preferably, if multiple sites are analyzed, the sites are unlinked. Thus, polymorphisms of the invention are often used in conjunction with polymorphisms in distal genes. Preferred polymorphisms for use in forensics are biallelic because the population
15 frequencies of two polymorphic forms can usually be determined with greater accuracy than those of multiple polymorphic forms at multi-allelic loci.

The capacity to identify a distinguishing or unique set of forensic markers in an individual is useful for forensic
20 analysis. For example, one can determine whether a blood sample from a suspect matches a blood or other tissue sample from a crime scene by determining whether the set of polymorphic forms occupying selected polymorphic sites is the same in the suspect and the sample. If the set of
25 polymorphic markers does not match between a suspect and a sample, it can be concluded (barring experimental error) that the suspect was not the source of the sample. If the set of markers does match, one can conclude that the DNA from the suspect is consistent with that found at the crime
30 scene. If frequencies of the polymorphic forms at the loci tested have been determined (e.g., by analysis of a suitable population of individuals), one can perform a statistical analysis to determine the probability that a

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match of suspect and crime scene sample would occur by chance.

$p(ID)$ is the probability that two random individuals have the same polymorphic or allelic form at a given

- 5 polymorphic site. In biallelic loci, four genotypes are possible: AA, AB, BA, and BB. If alleles A and B occur in a haploid genome of the organism with frequencies x and y , the probability of each genotype in a diploid organism is (see WO 95/12607):

- 10 Homozygote: $p(AA) = x^2$
 Homozygote: $p(BB) = y^2 = (1-x)^2$
 Single Heterozygote: $p(AB) = p(BA) = xy = x(1-x)$
 Both Heterozygotes: $p(AB+BA) = 2xy = 2x(1-x)$

- The probability of identity at one locus (i.e., the
 15 probability that two individuals, picked at random from a population will have identical polymorphic forms at a given locus) is given by the equation:

$$p(ID) = (x^2)^2 + (2xy)^2 + (y^2)^2.$$

- These calculations can be extended for any number of
 20 polymorphic forms at a given locus. For example, the probability of identity $p(ID)$ for a 3-allele system where the alleles have the frequencies in the population of x , y and z , respectively, is equal to the sum of the squares of the genotype frequencies:

25
$$p(ID) = x^4 + (2xy)^2 + (2yz)^2 + (2xz)^2 + z^4 + y^4$$

In a locus of n alleles, the appropriate binomial expansion is used to calculate $p(ID)$ and $p(exc)$.

- The cumulative probability of identity (cum $p(ID)$) for each of multiple unlinked loci is determined by multiplying
 30 the probabilities provided by each locus.

$$\text{cum } p(ID) = p(ID_1)p(ID_2)p(ID_3) \dots p(ID_n)$$

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The cumulative probability of non-identity for n loci (i.e. the probability that two random individuals will be different at 1 or more loci) is given by the equation:

$$\text{cum } p(\text{nonID}) = 1 - \text{cum } p(\text{ID}).$$

- 5 If several polymorphic loci are tested, the cumulative probability of non-identity for random individuals becomes very high (e.g., one billion to one). Such probabilities can be taken into account together with other evidence in determining the guilt or innocence of the suspect.

10 B. Paternity Testing

The object of paternity testing is usually to determine whether a male is the father of a child. In most cases, the mother of the child is known and thus, the mother's contribution to the child's genotype can be traced.

- 15 Paternity testing investigates whether the part of the child's genotype not attributable to the mother is consistent with that of the putative father. Paternity testing can be performed by analyzing sets of polymorphisms in the putative father and the child.

- 20 If the set of polymorphisms in the child attributable to the father does not match the set of polymorphisms of the putative father, it can be concluded, barring experimental error, that the putative father is not the real father. If the set of polymorphisms in the child
- 25 attributable to the father does match the set of polymorphisms of the putative father, a statistical calculation can be performed to determine the probability of coincidental match.

- 30 The probability of parentage exclusion (representing the probability that a random male will have a polymorphic form at a given polymorphic site that makes him

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incompatible as the father) is given by the equation (see WO 95/12607):

$$p(\text{exc}) = xy(1-xy)$$

where x and y are the population frequencies of alleles A and B of a biallelic polymorphic site.

(At a triallelic site $p(\text{exc}) = xy(1-xy) + yz(1-yz) + xz(1-xz) + 3xyz(1-xyz)$), where x, y and z are the respective population frequencies of alleles A, B and C).

The probability of non-exclusion is

$$p(\text{non-exc}) = 1 - p(\text{exc})$$

The cumulative probability of non-exclusion (representing the value obtained when n loci are used) is thus:

$$\text{cum } p(\text{non-exc}) = p(\text{non-exc1})p(\text{non-exc2})p(\text{non-exc3}) \dots p(\text{non-excn})$$

The cumulative probability of exclusion for n loci (representing the probability that a random male will be excluded)

$$\text{cum } p(\text{exc}) = 1 - \text{cum } p(\text{non-exc}).$$

If several polymorphic loci are included in the analysis, the cumulative probability of exclusion of a random male is very high. This probability can be taken into account in assessing the liability of a putative father whose polymorphic marker set matches the child's polymorphic marker set attributable to his/her father.

C. Correlation of Polymorphisms with Phenotypic Traits

The polymorphisms of the invention may contribute to the phenotype of an organism in different ways. Some polymorphisms occur within a protein coding sequence and contribute to phenotype by affecting protein structure. The effect may be neutral, beneficial or detrimental, or both beneficial and detrimental, depending on the

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circumstances. For example, a heterozygous sickle cell mutation confers resistance to malaria, but a homozygous sickle cell mutation is usually lethal. Other polymorphisms occur in noncoding regions but may exert phenotypic effects indirectly via influence on replication, transcription, and translation. A single polymorphism may affect more than one phenotypic trait. Likewise, a single phenotypic trait may be affected by polymorphisms in different genes. Further, some polymorphisms predispose an individual to a distinct mutation that is causally related to a certain phenotype.

Phenotypic traits include diseases that have known but hitherto unmapped genetic components (e.g., agammaglobulinemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular dystrophy, Wiskott-Aldrich syndrome, Fabry's disease, familial hypercholesterolemia, polycystic kidney disease, hereditary spherocytosis, von Willebrand's disease, tuberous sclerosis, hereditary hemorrhagic telangiectasia, familial colonic polyposis, Ehlers-Danlos syndrome, osteogenesis imperfecta, and acute intermittent porphyria). Phenotypic traits also include symptoms of, or susceptibility to, multifactorial diseases of which a component is or may be genetic, such as autoimmune diseases, inflammation, cancer, diseases of the nervous system, and infection by pathogenic microorganisms. Some examples of autoimmune diseases include rheumatoid arthritis, multiple sclerosis, diabetes (insulin-dependent and non-independent), systemic lupus erythematosus and Graves disease. Some examples of cancers include cancers of the bladder, brain, breast, colon, esophagus, kidney, leukemia, liver, lung, oral cavity, ovary, pancreas, prostate, skin, stomach and uterus. Phenotypic traits also include characteristics such as longevity, appearance

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(e.g., baldness, obesity), strength, speed, endurance, fertility, and susceptibility or receptivity to particular drugs or therapeutic treatments.

Correlation is performed for a population of
5 individuals who have been tested for the presence or
absence of a phenotypic trait of interest and for
polymorphic markers sets. To perform such analysis, the
presence or absence of a set of polymorphisms (i.e. a
polymorphic set) is determined for a set of the
10 individuals, some of whom exhibit a particular trait, and
some of which exhibit lack of the trait. The alleles of
each polymorphism of the set are then reviewed to determine
whether the presence or absence of a particular allele is
associated with the trait of interest. Correlation can be
15 performed by standard statistical methods such as a χ^2 -
squared test and statistically significant correlations
between polymorphic form(s) and phenotypic characteristics
are noted. For example, it might be found that the
presence of allele A1 at polymorphism A correlates with
20 heart disease. As a further example, it might be found
that the combined presence of allele A1 at polymorphism A
and allele B1 at polymorphism B correlates with increased
milk production of a farm animal.

Such correlations can be exploited in several ways. In
25 the case of a strong correlation between a set of one or
more polymorphic forms and a disease for which treatment is
available, detection of the polymorphic form set in a human
or animal patient may justify immediate administration of
treatment, or at least the institution of regular
30 monitoring of the patient. Detection of a polymorphic form
correlated with serious disease in a couple contemplating a
family may also be valuable to the couple in their
reproductive decisions. For example, the female partner

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might elect to undergo in vitro fertilization to avoid the possibility of transmitting such a polymorphism from her husband to her offspring. In the case of a weaker, but still statistically significant correlation between a polymorphic set and human disease, immediate therapeutic intervention or monitoring may not be justified.

Nevertheless, the patient can be motivated to begin simple life-style changes (e.g., diet, exercise) that can be accomplished at little cost to the patient but confer potential benefits in reducing the risk of conditions to which the patient may have increased susceptibility by virtue of variant alleles. Identification of a polymorphic set in a patient correlated with enhanced receptiveness to one of several treatment regimes for a disease indicates that this treatment regime should be followed.

For animals and plants, correlations between characteristics and phenotype are useful for breeding for desired characteristics. For example, Beitz et al., US 5,292,639 discuss use of bovine mitochondrial polymorphisms in a breeding program to improve milk production in cows. To evaluate the effect of mtDNA D-loop sequence polymorphism on milk production, each cow was assigned a value of 1 if variant or 0 if wildtype with respect to a prototypical mitochondrial DNA sequence at each of 17 locations considered. Each production trait was analyzed individually with the following animal model:

$$Y_{ijkpn} = \mu + YS_i + P_j + X_k + \beta_1 + \dots \beta_{17} + PE_n + a_n + e_p$$

where Y_{ijkpn} is the milk, fat, fat percentage, SNF, SNF percentage, energy concentration, or lactation energy record; μ is an overall mean; YS_i is the effect common to all cows calving in year-season; X_k is the effect common to cows in either the high or average selection line; β_1 to β_{17} are the binomial regressions of production record on mtDNA

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D-loop sequence polymorphisms; PE_n is permanent environmental effect common to all records of cow n ; a_n is effect of animal n and is composed of the additive genetic contribution of sire and dam breeding values and a Mendelian sampling effect; and e_p is a random residual. It was found that eleven of seventeen polymorphisms tested influenced at least one production trait. Bovines having the best polymorphic forms for milk production at these eleven loci are used as parents for breeding the next generation of the herd.

D. Genetic Mapping of Phenotypic Traits

The previous section concerns identifying correlations between phenotypic traits and polymorphisms that directly or indirectly contribute to those traits. The present section describes identification of a physical linkage between a genetic locus associated with a trait of interest and polymorphic markers that are not associated with the trait, but are in physical proximity with the genetic locus responsible for the trait and co-segregate with it. Such analysis is useful for mapping a genetic locus associated with a phenotypic trait to a chromosomal position, and thereby cloning gene(s) responsible for the trait. See Lander et al., *Proc. Natl. Acad. Sci. (USA)* 83, 7353-7357 (1986); Lander et al., *Proc. Natl. Acad. Sci. (USA)* 84, 2363-2367 (1987); Donis-Keller et al., *Cell* 51, 319-337 (1987); Lander et al., *Genetics* 121, 185-199 (1989)). Genes localized by linkage can be cloned by a process known as directional cloning. See Wainwright, *Med. J. Australia* 159, 170-174 (1993); Collins, *Nature Genetics* 1, 3-6 (1992).

Linkage studies are typically performed on members of a family. Available members of the family are characterized

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for the presence or absence of a phenotypic trait and for a set of polymorphic markers. The distribution of polymorphic markers in an informative meiosis is then analyzed to determine which polymorphic markers co-

5 segregate with a phenotypic trait. See, e.g., Kerem et al., *Science* 245, 1073-1080 (1989); Monaco et al., *Nature* 316, 842 (1985); Yamoka et al., *Neurology* 40, 222-226 (1990); Rossiter et al., *FASEB Journal* 5, 21-27 (1991).

Linkage is analyzed by calculation of LOD (log of the

10 odds) values. A lod value is the relative likelihood of obtaining observed segregation data for a marker and a genetic locus when the two are located at a recombination fraction θ , versus the situation in which the two are not linked, and thus segregating independently (Thompson &

15 Thompson, *Genetics in Medicine* (5th ed, W.B. Saunders Company, Philadelphia, 1991); Strachan, "Mapping the human genome" in *The Human Genome* (BIOS Scientific Publishers Ltd, Oxford), Chapter 4). A series of likelihood ratios are calculated at various recombination fractions (θ),

20 ranging from $\theta = 0.0$ (coincident loci) to $\theta = 0.50$ (unlinked). Thus, the likelihood at a given value of θ is: probability of data if loci linked at θ to probability of data if loci unlinked. The computed likelihoods are usually expressed as the \log_{10} of this ratio (i.e., a lod

25 score). For example, a lod score of 3 indicates 1000:1 odds against an apparent observed linkage being a coincidence. The use of logarithms allows data collected from different families to be combined by simple addition. Computer programs are available for the calculation of lod

30 scores for differing values of θ (e.g., LIPED, MLINK (Lathrop, *Proc. Nat. Acad. Sci. (USA)* 81, 3443-3446 (1984)). For any particular lod score, a recombination fraction may be determined from mathematical tables. See

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Smith et al., *Mathematical tables for research workers in human genetics* (Churchill, London, 1961); Smith, *Ann. Hum. Genet.* 32, 127-150 (1968). The value of θ at which the lod score is the highest is considered to be the best estimate
5 of the recombination fraction.

Positive lod score values suggest that the two loci are linked, whereas negative values suggest that linkage is less likely (at that value of θ) than the possibility that the two loci are unlinked. By convention, a combined lod
10 score of +3 or greater (equivalent to greater than 1000:1 odds in favor of linkage) is considered definitive evidence that two loci are linked. Similarly, by convention, a negative lod score of -2 or less is taken as definitive evidence against linkage of the two loci being compared.
15 Negative linkage data are useful in excluding a chromosome or a segment thereof from consideration. The search focuses on the remaining non-excluded chromosomal locations.

IV. Modified Polypeptides and Gene Sequences

20 The invention further provides variant forms of nucleic acids and corresponding proteins. The nucleic acids comprise one of the sequences described in the Table, column 8, in which the polymorphic position is occupied by one of the alternative bases for that position. Some
25 nucleic acids encode full-length variant forms of proteins. Similarly, variant proteins have the prototypical amino acid sequences encoded by nucleic acid sequences shown in the Table, column 8, (read so as to be in-frame with the full-length coding sequence of which it is a component)
30 except at an amino acid encoded by a codon including one of the polymorphic positions shown in the Table. That position is occupied by the amino acid coded by the

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corresponding codon in any of the alternative forms shown in the Table.

Variant genes can be expressed in an expression vector in which a variant gene is operably linked to a native or other promoter. Usually, the promoter is a eukaryotic promoter for expression in a mammalian cell. The transcription regulation sequences typically include a heterologous promoter and optionally an enhancer which is recognized by the host. The selection of an appropriate promoter, for example trp, lac, phage promoters, glycolytic enzyme promoters and tRNA promoters, depends on the host selected. Commercially available expression vectors can be used. Vectors can include host-recognized replication systems, amplifiable genes, selectable markers, host sequences useful for insertion into the host genome, and the like.

The means of introducing the expression construct into a host cell varies depending upon the particular construction and the target host. Suitable means include fusion, conjugation, transfection, transduction, electroporation or injection, as described in Sambrook, *supra*. A wide variety of host cells can be employed for expression of the variant gene, both prokaryotic and eukaryotic. Suitable host cells include bacteria such as *E. coli*, yeast, filamentous fungi, insect cells, mammalian cells, typically immortalized, e.g., mouse, CHO, human and monkey cell lines and derivatives thereof. Preferred host cells are able to process the variant gene product to produce an appropriate mature polypeptide. Processing includes glycosylation, ubiquitination, disulfide bond formation, general post-translational modification, and the like.

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The protein may be isolated by conventional means of protein biochemistry and purification to obtain a substantially pure product, i.e., 80, 95 or 99% free of cell component contaminants, as described in Jacoby,

5 *Methods in Enzymology* Volume 104, Academic Press, New York (1984); Scopes, *Protein Purification, Principles and Practice*, 2nd Edition, Springer-Verlag, New York (1987); and Deutscher (ed), *Guide to Protein Purification, Methods in Enzymology*, Vol. 182 (1990). If the protein is
10 secreted, it can be isolated from the supernatant in which the host cell is grown. If not secreted, the protein can be isolated from a lysate of the host cells.

The invention further provides transgenic nonhuman animals capable of expressing an exogenous variant gene
15 and/or having one or both alleles of an endogenous variant gene inactivated. Expression of an exogenous variant gene is usually achieved by operably linking the gene to a promoter and optionally an enhancer, and microinjecting the construct into a zygote. See Hogan et al., "Manipulating
20 the Mouse Embryo, A Laboratory Manual," Cold Spring Harbor Laboratory. Inactivation of endogenous variant genes can be achieved by forming a transgene in which a cloned variant gene is inactivated by insertion of a positive selection marker. See Capecchi, *Science* 244, 1288-1292
25 (1989). The transgene is then introduced into an embryonic stem cell, where it undergoes homologous recombination with an endogenous variant gene. Mice and other rodents are preferred animals. Such animals provide useful drug screening systems.

30 In addition to substantially full-length polypeptides expressed by variant genes, the present invention includes biologically active fragments of the polypeptides, or analogs thereof, including organic molecules which simulate

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the interactions of the peptides. Biologically active fragments include any portion of the full-length polypeptide which confers a biological function on the variant gene product, including ligand binding, and
5 antibody binding. Ligand binding includes binding by nucleic acids, proteins or polypeptides, small biologically active molecules, or large cellular structures.

Polyclonal and/or monoclonal antibodies that specifically bind to variant gene products but not to
10 corresponding prototypical gene products are also provided. Antibodies can be made by injecting mice or other animals with the variant gene product or synthetic peptide fragments thereof. Monoclonal antibodies are screened as are described, for example, in Harlow & Lane, *Antibodies, A*
15 *Laboratory Manual*, Cold Spring Harbor Press, New York (1988); Goding, *Monoclonal antibodies, Principles and Practice* (2d ed.) Academic Press, New York (1986). Monoclonal antibodies are tested for specific immunoreactivity with a variant gene product and lack of
20 immunoreactivity to the corresponding prototypical gene product. These antibodies are useful in diagnostic assays for detection of the variant form, or as an active ingredient in a pharmaceutical composition.

V. Kits

25 The invention further provides kits comprising at least one allele-specific oligonucleotide as described above. Often, the kits contain one or more pairs of allele-specific oligonucleotides hybridizing to different forms of a polymorphism. In some kits, the allele-specific
30 oligonucleotides are provided immobilized to a substrate. For example, the same substrate can comprise allele-specific oligonucleotide probes for detecting at least 10,

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100 or all of the polymorphisms shown in the Table.

Optional additional components of the kit include, for example, restriction enzymes, reverse-transcriptase or polymerase, the substrate nucleoside triphosphates, means
5 used to label (for example, an avidin-enzyme conjugate and enzyme substrate and chromogen if the label is biotin), and the appropriate buffers for reverse transcription, PCR, or hybridization reactions. Usually, the kit also contains instructions for carrying out the methods.

10 The following Examples are offered for the purpose of illustrating the present invention and are not to be construed to limit the scope of this invention. The teachings of all references cited herein are hereby incorporated herein by reference.

15 EXAMPLES

The polymorphisms shown in the Table were identified by resequencing of target sequences from three to ten unrelated individuals of diverse ethnic and geographic backgrounds by hybridization to probes immobilized to
20 microfabricated arrays or conventional sequencing. The strategy and principles for design and use of such arrays are generally described in WO 95/11995. The strategy provides arrays of probes for analysis of target sequences showing a high degree of sequence identity to the reference
25 sequences of the fragments shown in the Table, column 1. The reference sequences were sequence-tagged sites (STSs) developed in the course of the Human Genome Project (see, e.g., *Science* 270, 1945-1954 (1995); *Nature* 380, 152-154 (1996)). Most STS's ranged from 100 bp to 300 bp in size.

30 A typical probe array used in this analysis has two groups of four sets of probes that respectively tile both strands of a reference sequence. A first probe set

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comprises a plurality of probes exhibiting perfect complementarily with one of the reference sequences. Each probe in the first probe set has an interrogation position that corresponds to a nucleotide in the reference sequence.

5 That is, the interrogation position is aligned with the corresponding nucleotide in the reference sequence, when the probe and reference sequence are aligned to maximize complementarily between the two. For each probe in the first set, there are three corresponding probes from three

10 additional probe sets. Thus, there are four probes corresponding to each nucleotide in the reference sequence. The probes from the three additional probe sets are identical to the corresponding probe from the first probe set except at the interrogation position, which occurs in

15 the same position in each of the four corresponding probes from the four probe sets, and is occupied by a different nucleotide in the four probe sets. In the present analysis, probes were 25 nucleotides long. Arrays tiled for multiple different references sequences were included

20 on the same substrate.

Multiple target sequences from an individual were amplified from human genomic DNA using primers for the fragments indicated in the listed Web sites. The amplified target sequences were fluorescently labelled during or

25 after PCR. The labelled target sequences were hybridized with a substrate bearing immobilized arrays of probes. The amount of label bound to probes was measured. Analysis of the pattern of label revealed the nature and position of differences between the target and reference sequence. For

30 example, comparison of the intensities of four corresponding probes reveals the identity of a corresponding nucleotide in the target sequences aligned with the interrogation position of the probes. The

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corresponding nucleotide is the complement of the nucleotide occupying the interrogation position of the probe showing the highest intensity (see WO 95/11995). The existence of a polymorphism is also manifested by

5 differences in normalized hybridization intensities of probes flanking the polymorphism when the probes hybridized to corresponding targets from different individuals. For example, relative loss of hybridization intensity in a "footprint" of probes flanking a polymorphism signals a

10 difference between the target and reference (i.e., a polymorphism) (see EP 717,113). Additionally, hybridization intensities for corresponding targets from different individuals can be classified into groups or clusters suggested by the data, not defined *a priori*, such

15 that isolates in a give cluster tend to be similar and isolates in different clusters tend to be dissimilar. Hybridizations to samples from different individuals were performed separately. The Table summarizes the data obtained for target sequences in comparison with a

20 reference sequence for the individuals tested.

From the foregoing, it is apparent that the invention includes a number of general uses that can be expressed concisely as follows. The invention provides for the use of any of the nucleic acid segments described above in the

25 diagnosis or monitoring of diseases, such as cancer, inflammation, heart disease, diseases of the CNS, and susceptibility to infection by microorganisms. The invention further provides for the use of any of the nucleic acid segments in the manufacture of a medicament

30 for the treatment or prophylaxis of such diseases. The invention further provides for the use of any of the DNA segments as a pharmaceutical.

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All publications and patent applications cited above are incorporated by reference in their entirety for all purposes to the same extent as if each individual publication or patent application were specifically and
5 individually indicated to be so incorporated by reference.

1	2	3	4	5	6	7
WI-7070	226	C	---			TGTGAACTCCACTTGAAGCCAAAGAAAGAACTCACACTTAAACACATGCCAGTTGGGAAGGCT GAAACTCAGTGCATAATAGGAACACTTGAGACTAATGAAAGAGAGAGTGGAGCCAATCTTTATTT GTACTGGCCAAATCTGAATAAACAGTTGAAGGAAAGACATTGGAAAAAGCTTTTGAGGATAATGT TACTAGACTTTATGCCATGGTCTTTCTAGTTTAATGCTGTGCTCTGTCAG
WI-10744	61	GC	---			AAGCCATTGACGTAACATCTCAGAGGTTATTTGTCATGGATTGACTCCTGGGACAAAAGGAC[G/C]AA AAACACTCTTCTGTGGATATCTGTGCAGATAGATGACCCAAAGATCAGATGCTACCCAGATGTGTTTT GATAATACATAAGCCCCCTAGGATTTAGATACAATCTTGAAAGAAACTGAGACAGATAATCTGAATT AAATGAGTTAAAGTTTCAGGCACTCA
WI-9975	126	C	---			GGCAAATTACCAGCAAAAAGTCAAATACCAGCATCAAAGTCAGGTGCAAGGAGGTAGAACAA TTACAGTAACATATGTCAAATCTTTTGTATATTAGTATTATCTGCCCAATGCCCTAGAATA[C/T]JAGTG GGTCCCTAATAGTTATTAGTTCCCTTTTCTCCTCTTCTCACTCTGAAATTTATTTTATACTTAA GGGATTAGTTACCACCAAAATGTGTATGTATCAATTTGATCTTACTGAA
WI-8010	247	GT	---			GCTAGGTTTGTCTGTGGCTGTCTCACTAGACTGAGATGACTTGATTTACAGTAATCCCTATGT GATGTAACATAGCTAGACCTTCCCCTCCGCAATCCCAGTCCAGGTTTCAGAAAAGTATGCCACAC TCAACCCCTTCTCTCCAGTTTCATCCTGTATTAATTTCTCCCATATTAATTCAAAGGGAGTGGACAGGT CCCTGGCTGAAAAGAAATAAGAGATCCCCAAAGTGGTGGGG[G/T]CTT
WI-5222b	85	GC	---			GCCCGGCTATCTTTAAATTTAACTTGATCTTTGGTGTCTCCATCCTAGGATCTGCCTTATAAT CTTTGTCCCTGTCTGTGTA[G/C]JATTACCTGATCTACTTTTGATACACAAGGCTGATGGCTCACAATGT AGTAGTGCCAAATCTTCAGGCTCTTTTGAATTTTCTCTGCTATTGAGGACATTTCCACITTTCTACTTA TCTCGACTCTATAACAACCTCCAACAGAA
WI-5222	52	GC	---			GCCCGGCTATCTTTAAATTTAACTTGATCTTTGGTGTCTCCATCCTA[G/C]GATTCGCCTTAT AATCTTTGTCCCTGTCTGTAGATTACCTGATTTTGTATACACAAGGCTGATGGCTCACAATGT AGTAGTGCCAAATCTTCAGGCTCTTTTGAATTTTCTCTGCTATTGAGGACATTTCCACITTTCTACTTA TCTCGACTCTATAACAACCTCCAACAGAA
WI-8007	242	CA	---			TATGCACTTCCACAAAAGCGATATAATTTAAAAGTTTTTTCATTAGAAAATAATGTATAAAAATAA ATATGTTATTATAGGCATTTATTACTAATACTATAGTCCCTCTTGGAAGGAACACCCAAACCAATACCTT ATAAGTACATGTAATTTATAGTAACATATTTACTATATACATATGGAATAATCATATTTCTCACA GAAGAGCTGAACAGACATTCACCCAGGATACGACTGTTGGAC[C/A]JAGCTGCTG
WI-9823	97	CT	---			TCAGTTGCAAAAATTGCTGCCATAAACATGCTTTGCTTATCTCTGTGCATATGTATGTTTGTAG TCTATATTCACACATATGAGTGAAATTTCTCTGGGGCATGGGAAATACATCTTTATGAGACATTTGA ACTGCTCACCACATATCATAGTATCCATTTAAACAGACCAACAATGTATAAGAAATCCCTTTGTTTAC ATGCTTCCAACTGATTTGTATGACTATTTGATGCACAGTTGGATCACC

WI-9651b	105	A T	---			TCCTACATTCTATGGACAACCTCCATGCCCTTTCACATGCTGATCCCTCCTCCTCGGAATTCCTTCCT ACTTGCTCCTCATGTACAATTTCTGCTGCTCCTTCA/ATJGGGGCAGCTTGCAAGCCCTCCCTTTAGAC ACCTTACAGGTACAGCCGACCATGCCCTACCTCCATGGCACTGCCAGGGACCCCTATAGGCCCTCTG TCCTTAAACCTGTAAATGGTATATTAAATCCCTGGTGTGTTGAATGCTCTC
WI-9651	139	T C	---			TCCTACATTCTATGGACAACCTCCATGCCCTTTCACATGCTGATCCCTCCTCCTCGGAATTCCTTCCT ACTTGCTCCTCATGTACAATTTCTGCTGCTCCTTCAAGGGGCAGCTTGCAAGCCCTCCCTTTAGACACCT CT/CJACAGGTACAGCCGACCATGCCCTACCTCCATGGCACTGCCAGGGACCCCTATAGGCCCTCTGT CTTAAACCTGTAAATGGTATATTAAATCCCTGGTGTGTTGAATGCTCTC
WI-7676b	309	A C	---			GTGACCTTCCTGCAGCGTGGAGATGGACATCCTTGTCTGCTGGGACTTGGCCCTGCTATTTATTTTG TATTTATGCTTAATCTCTCCACTGATGCATCCTCAAGGGTAGATGGGAGGGTCTGTGTGAAGGG GCCGGCTCTCTTGGTGGCTGCTGGTTCAGGGGCAGGAAGCGTGTGGACTGCAGCTTCTGCTGGTGC TCCCCCGTCTCCTCGAGGCAGTATAGGAGAGAGAGCAAGGATTGAGT
WI-7676	139	C T	---			GTGACCTTCCTGCAGCGTGGAGATGGACATCCTTGTCTGCTGGGACTTGGCCCTGCTATTTATTTTG TATTTATGCTTAATCTCTCCACTGATGCATCCTCAAGGGTAGATGGGAGGGTCTGTGTGAAGGG GC/CJGGCTCTCTTGGTGGCTGCTGGTTCAGGGGCAGGAAGCGTGTGGACTGCAGCTTCTGCTG GTGCTCCCCCGTCTCCTCGAGGCAGTATAGGAGAGAGAGCAAGGATT
WI-10072	105	G A	---			CATTATCTTGCTTGGGCTGTTCATTACCTTCTCCTCCTCCTCAATGAAGAGGATATTTAAGCATCAT CATCTGGCCCTTTTGGTGTGAAATATTTTGTG/JGACTCCTATGCACATGATAAAATTTGTTA TGCTTGCTCTTATCTATCTTTTGTATAGGAGTTTGGCCATGACCCCTTATGAGGAGAAAAAGGA TCACCCCTTTTGGCTCTACAACCTTATAGATATTTAAATATCTTT
WI-9986	42	T C	---			TTGGTGTGAACCTCAGAAATATAGGGAAAAAAGACAATTTGAA/T/A,CJGTACCCAGGAAACAAGAG CCCTGCACCTGACTCCAAAGGAGTTCTATTATCTGGCTGTTCAGACCTTATGTATCTTGAGAA GAGAACTGTTTCCCTCTAAATCAGTTTCACTATCTGATCCAGGTAGTACTCACAAGAACATGTCA ATATCAATAGCATGCATATGGGGTGTGGATTCTTAGAACCTTATTGCAATT
WI-7041	174	C A	---			GTCTATTGCAGGAGAAACGTCCCTTGGCACTCCCACTCTCATCAGGCCAAGTGGAGCTGGCCAGA GGGCTGCACATGCAAACTCCAGTCCCTGCCCTCAGAGAGCTGAAAAGGGTCCCTCGGCTTTTATTT CAGGGCTTGCATGCGCTCTATCCCTCTGCTCTC/CJCCACCTTCTTTGGAGCAAGGAGATGC AGCTGTATTGTGTAAACAAGCTCATTTGTACAGTGTCTGTTCATGTAATAA
WI-7224	134	T C	---			ATAAACCCCTTGTGTATGTATCACCCCAACTCACAATTAATCAACTTATGTGCTATCAGATATCCTCTCT ACCCTCAGCTTATTTGAAGAAAAATCCTAAACATCAAAATACCTTCATCCATAAAAAATGTACGATTJ /CJATTAATAAACAAATAACTTTTTAAAGAAACATAAGGACACATTTTCAAAATTAATAAAAAATAAG GCATTTTAAGGATGGCCTGTGATTATCTTGGGAAGCAGAGTGATTCATGCTAG

WI-10826	132 A C ---	---	TCTATTTCACAGTAGCCCCATGAAGTAGGTAGGTATAACCCAGCCTCTATTTTAACTGAGAAGAT GGAGGCCCTTTCCAAATGGACTAAGTAATGTGTCTCAGGTTTCTTAATAAGCAAAGACCTGCAIAC JCCCTGGCTTCCTGACTCCAAAGCTTATCCCTTCTCATGCTGTGTGCTGTCAGCCAGGACCCCATGCGCA GAAAGCCAGCCTCTCCATCCCCCAC
TIGR- A004S25	145 G A ---	---	AGATCTGCCATTAGTATTTATTCCTTTGAAGATACTTTGGAGATTCATTTCTTGAGTGGCACTGCAT GCTCATTGAGTGAAGAACTTTGGGGTATAGAAATGGAATGGAGAGTTTCAAACAGCTTTGCTGAAAC TGTACTTTGG[G/A]CTCCAGACTTCACTGTCCTTAGGCATTGAACCATCACCTGGTTTGCACTTCTTC ATGACTGAGGTTAACTTAAATGACTGAGGTTAACTTAAAC
WI-1021	24 A T ---	---	AAACACAGAAATCATCAAAGCAC[A/T]ATCTGTGTTTGAGATAAATGATAGTCTGAGTCACCTATG TAAGAAGTAACTCTGAAATAGTAGGATAGTATTATCATTTCTGTAAATAGATTACCTCTCAGCAAT TGGTCTGTTTTCATTCTATGGAACCTCTCCGTACTGTAATTTTCATTCTATGGAACCTCCCCATACTGT AATTGGACAGTTTGGTTCCAC
WI-4687	121 G T ---	---	TAGTATGTCACCTGCCATGGTAAGGACTTTGATCACTAGGAAATAAGAACACTTTGAATGGTCTTGTC TTTCAATAAAGAGTGACATGATTGAACATGTGTTTTAGATAAAGGGCACTT[G/T]GCAGGAGTGT TTAGGATGAAGAGAGAGAGATTAAGGAAGATCAGGAAGAAAGTAGCAATGGGAATGAAAAATAG GAGGCCCTGAGATCCACTGGATAATCTAAAAACCAAGAGAGAAAGAACTTGAT
WI-4719b	107 T G ---	---	TTCAATTCCTTCCAAATCCTTAGGAAATTTACATTATGGGCTAGTGTCTTTGGGTGTGAGCGGATT ATGCTGACGCCATGGGTGTTTCATAAGTGACTTGAGAGTTTACTGTAGAGGCTACACAGAAATCT CTGTGAGGGGCATGTAATTGTAATTCATTCAACAATTCGTCTATGCTTCTCAGATTGCAGAAAAATCAC TGCTCAAAATTCCTTCAACTTATCCTTAAGACATTTTTCACAGGA
WI-4719	70 G A ---	---	TTCAATTCCTTCCAAATCCTTAGGAAATTTACATTATGGGCTAGTGTCTTTGGGTGTGAGCGGATT AT[G/A]JCTGACGCCATGGGTGTTTCATAAGTGACTTGAGAGTTTACTGTAGAGGCTACACAGAAATCT CTGTGAGGGGCATGTAATTGTAATTCATTCAACAATTCGTCTATGCTTCTCAGATTGCAGAAAAATCAC TGCTCAAAATTCCTTCAACTTATCCTTAAGACATTTTTCACAGGA
WI-9484b	216 G C ---	---	TCAACACGCCTTTATTGCCACTTCTGGCTCCCTCTGTCGCCAGCAAGATTCCTACCTTTACCCCTGTAGG AATACTGAGCTCCGATGCAGGGGAATGGGTGGGGTGTACCCTTCTCCTCTGCACACTGCCAAGT TAAAGAAACCCCTGCTTGTCTGGAGAGGGAGGCCAGACAGGAGGAATTCAGGGCATGTATGGCTC AGTCCCACTTCT[G/C]ACTGCAGAGTATAGGGACCAGGGTTCCAAACTTT
WI-9484	178 G A ---	---	TCAACACGCCTTTATTGCCACTTCTGGCTCCCTCTGTCGCCAGCAAGATTCCTACCTTTACCCCTGTAGG AATACTGAGCTCCGATGCAGGGGAATGGGTGGGGTGTACCCTTCTCCTCTGCACACTGCCAAGT TAAAGAAACCCCTGCTTGTCTGGAGAGGGAGGCCAGACAGG[G/A]AGGAATTCAGGGCATGTATG GCTCAGTCCCACTTCTGACTGCAGAGTATAGGGACCAGGGTTCCAACTTT

II-7330	207 C T ---			AGGATGGAAGGAGACACGGGGCAGGAGAACTCTCTCTGCTAAATCGATAGGAGTCAGTTTTGTCT TAAATGCTGACTACAGCCACTGACATGGTTGGCTGGAATTTCTTTTAAATGTGGCATATAGGTTT GTGACACAAGAAGTCATACCTTTGGTGGCTAAGTTTACTAAGGAAATAAATGAAAGATTAAAAAG TGAGAGTC/TTGAAAGAGAAATGATAATGCTTCCAACTGTAGCTGTACAG
II-9443	211 G A ---			TTAAACAGTTTCAGTTGGTGAAGCAGAAAGGGATGTGATTACAAATTTAAATGAATCAGTCACCTT GCACAATTAATCCTCTTGGCATCATACAACTGGTTTAAATGGCAATGATGACATCATAGCATGA CCAACACTCATGGAAGGCAGTCTAGAGTCCATCACGCTCACACCTGAGGGGAAGGCACTGCACCCA CTGACGAGAC/GA/CAGAGAGACCTTGGACTACAGATGACACCCACATGCCACCTT
VI-7166	59 C T ---			TCCTCAAAAGAGAAAAACAAACCCCTAAGAGACTGAGTTCTGCAAGCATCAGTTCTA/C/TTGGAT CATCAACAAGATTTCCTTGTGCAAAATATTTGACTATTTCTGTATCTTTTCATCCTTGACTAAATTCGTG ATTTCAAGCAGCATCTCTGGTTTAAACTTGTGTGCTGAACAATTTGTCGAAAGAGTCTTCCAAT TAATGCTTTTATATCTAGGCTACCTGTTGGTTAGATTCAAGGCCCCGAG
VI-7259b	189 T C ---			GCTCTTCCCCAGGAAGCGGGTCTTGGCCTGGAACCTTCCAGAGAGGGGGAGCAATTTTAGCC CCACCTGTCCCATCTGCCCCCTGCAACAGCTGCAGGCTGCTTCTCTCTGAGTTCTCTGGGCT GCGAGGCTCCCTGGGAATAGAGCAAGACGTGAGTCTAACCTGGCCACAG/T/C/TTGGGGGAGCAG AGCCAGCAGTGGACAGGTGTTTGCAGGGGCCCAACTTCCCTGGAGCTC
VI-7259	188 G T ---			GCTCTTCCCCAGGAAGCGGGTCTTGGCCTGGAACCTTCCAGAGAGGGGGAGCAATTTTAGCC CCACCTGTCCCATCTGCCCCCTGCAACAGCTGCAGGCTGCTTCTCTCTGAGTTCTCTGGGCT GCGAGGCTCCCTGGGAATAGAGCAAGACGTGAGTCTAACCTGGCCACAG/C/C/TTTGGGGGAGCA GAGCCAGCAGTGGACAGGTGTTTGCAGGGGCCCAACTTCCCTGGAGC
VI-7322	275 A G ---			GTACTTTAGGCCTGTGGAGGGTGGGCATTTAGTGTGACCTTGCACCAGGGTTTCTAACAGATGAC CCTGTGAATCATAAATTAACCTGCATATATTTATAGCCAGTCACATTTGCCCTCTCACCCCTATATG GCCATAAATGCCTAAGCACTCAGGCCCTCCCACTCATCAACCCCTTTGACCAGAGAAAGAAGCACTC TGGTTCTCTATCCCTTGTACATAGAGAGTTTGTATGGGGCCCTCTGGCTG
VI-7685	46 T C ---			TCAGTTCTAGTCTCTCTGGGGCCACACAGAAACTCTTTTGGGCTC/T/C/TTTCTCCCTCTGGATCA AAGTAGGCAGGACCATGGGACCAGGCTTGGAGCTGAGCCCTCAGCTGTACTCTCCGAAAAATCCT CTTCTCTGAGGCTGGATCCTAGCCTTATCCTCTGATCTCCATGGCTTCTCTCCCTCCTGCCGACTC CTGGTTGAGCTGTTGCCCTCAGTCCCCCAACAGATGCTTTCTGTCTC
VI-563	87 G A ---			TGTGACCAATGTTATTTAGAGGGTTTAAACAATGGCCTGACTATCACCTGATGTGCGCCAGAAATTC CTGGGGAGGGCCTCCCTT/GA/CCCTGATCATGTCTACCTAACCTGCTACTCTAACAAATACTACTCC TGTGGTATGGGATCCTAAGCCCAAAAGCTGAAATGAACATGTTCTAGCACTACAGAAATCCATACT GCCCTCAGTAAAGGCCAAATTTAAATCTCTTTGGATAACCCAGGGGCACAT

WI-931c	191	C A ---	---	GACCAGGGCACCAGAAAGCCACGGAAGCCACAGCCACTAGCCCTGAACCTTGACACCCCTGGAGTT TCTCTCCCTCCCTATCCCTCACCACACCTTCCAGTGCCTTATCTGCTGTGTCACAAATGATCCTCT GTTGCTGCACCTGTCACTACTGTTGTATGGATTATAATTTATGTCCAAAAAAGCC[C/A]CGAGCCTGG TACAGAAAAGGCATGGGAAAGATGTGTCAGA
WI-931b	81	A G ---	---	GACCAGGGCACCAGAAAGCCACGGAAGCCACAGCCACTAGCCCTGAACCTTGACACCCCTGGAGTT TCTCTCCCTCCCT[A/G]TCCCTCACCACACCTTCCAGTGCCTTATCTGCTGTGTCACAAATGATCCT TCTGTTGCTGCACCTGTCACTACTGTTGTATGGATTATAATTTATGTCCAAAAAAGCCCGAGCCTGG TACAGAAAAGGCATGGGAAAGATGTGTCAGA
WI-931	31	A G ---	---	GACCAGGGCACCAGAAAGCCACGGAAGCCAC[A/G]GCCACTAGCCCTGAACCTTGACACCCCTGGA GTTTCTCTCCCTCCCTATCCCTCACCACACCTTCCAGTGCCTTATCTGCTGTGTCACAAATGATCCT TCTGTTGCTGCACCTGTCACTACTGTTGTATGGATTATAATTTATGTCCAAAAAAGCCCGAGCCTGG TACAGAAAAGGCATGGGAAAGATGTGTCAGA
WI-10870b	91	C T ---	---	GGATGACCTTACCCAATAGCAGGGTGGGTACATCGGTAAACACACCCCTGGACTGGGATGGCAGA GACATCCACCTTAGCAAAGTGGG[C/T]ACCTACTTAGAGCAGTGGAGTACCCCTGAGTACGACCCCC TTAGCAGCAGAAATTACAAGAAATCTTGGACCTGTACTCTGATACAAATAGGACATGGGTCAGC CTGAGCCACTCTTAAACCATGAACCATCACCATTAAATAACGTTGCCCCCCC
WI-10870	103	G A ---	---	GGATGACCTTACCCAATAGCAGGGTGGGTACATCGGTAAACACACCCCTGGACTGGGATGGCAGA GACATCCACCTTAGCAAAGTGGGACCTACTTAG[A/G]CAGTGGAGTACCCCTGAGTACGACCCCC TTAGCAGCAGAAATTACAAGAAATCTTGGACCTGTACTCTGATACAAATAGGACATGGGTCAGC CTGAGCCACTCTTAAACCATGAACCATCACCATTAAATAACGTTGCCCCCCC
WI-7719b	281	T C ---	---	AGTTTATTCTTCCAGATGACCAGCAGTAGACAAATGGATCTAGCAGCAGAGTCTTAGGTAAAAGTCTT GGGAAATATTTGGGCATTTGGTCTGGCCAAAGTCTACAATGTCCCAATATCAAGGACAACCCCTAGC TTCTTAGTGAAGACAATGTACAGTTATCCATTAGATCAAGACTACACGGTCTATGAGCAATAATGTG ATTTCTGGACATTTGCCCATGTATAATCCTCACTGATGATTTCAAGCTAAAGCAA
WI-7719	163	A G ---	---	AGTTTATTCTTCCAGATGACCAGCAGTAGACAAATGGATCTAGCAGCAGAGTCTTAGGTAAAAGTCTT GGGAAATATTTGGGCATTTGGTCTGGCCAAAGTCTACAATGTCCCAATATCAAGGACAACCCCTAGC TTCTTAGTGAAGACAATGTACAGTTATCC[A/G]TTAGATCAAGACTACACGGTCTATGAGCAATAAT GTGATTTCTGGACATTTGCCCATGTATAATCCTCACTGATGATTTCAAGCTAAA
WI-10396	72	C A ---	---	GCCTTGGAGTATATCTAACTGTGGCTCCACTTTTCATTTTCTTGAACATTTGCTATCAACTGGGAA GAGT[C/A]TGTGACTTTATGCCAGTTTCCCTCTCAGATTTTATGACGGTGTGTTTCTTTTGTTA TGCCATTTGAGGGATTGATGTTTCTTAAACTATGAAGTACTTGGCTGTCTCTCTCCATTGCTGTTTCAGG TTAACAGCCACCATTTGTAACACACTTTGT

NI-10673	94 C G ---			TCCCTTTATGCACCCAGAGATATTTATTAAACACCAATTACGTAGCAGGCCATGGCTCATGGGACC CACCCCGTGGCACTCATGGAGGGG[C/G]TGCAGGTGGAACTATGCAGTGTCTCCGGCCACACA TCCTGCTGGGCCCCCTACCCTGCCCAATTCATCCTGCCAATAAATCCTGCTTATTTGTTTCATCCTG GAGAAATTGAAGGGAGGTCAAGTTGTTTGTCATGATTTGTCAGAGAACCT
NI-7842	57 T C ---			CACAGCCATGCCCTTGAGGAGCCGGCCACCAGATGCTGAATCCCCTATCCCATTCTGTT[C/G]TATGAG TCCCATTTGCCTTGCAATTAGCATTTCTGTCTCCCCCAAAAAAGAAATGTGCTATGAAGCTTTCTTTCCCT ACACACTCTGAGTCTCTGAATGAAGCTGAAGGTCTTAGTACCAGAGTAGTTTTCAGCTGCTCAGAAT TCATCTGAAGAGAGACTTAAGATGAAAGCAAAATGATTACGCTCCCTTATA
NI-7721	145 A C ---			CTGCCATCACGCCCACTGGAGTCCACACTTGAATTTGGGAGCTACACGGGTCTGCCATGCTCTGG AGGAGCAAGGGGCCACATCCCCACCCAGCTGTTACCCAGCCGGGAGGTGCAGCCCTTCTCTCCC TGCTCTGC[A/C]TCTGACTCTCTTTGAGGTCCCTGTATGCTACCTCTGACTTCTGTGGTCCCTCTG TGCTGCTCTCATCCATTCTCTACTGGGGCTGGGGCTCTAGCCCCAA
NI-4767b	173 C A ---			TTCCAGTCTGTTTTATCCTTTTCATTGTCAAAAAGATGCTCTTAGACTGAAATTCATAAAGAGTTCCCT CAGGTCTGGGTAATCCTAGATCTTCCATATCCATTGAGTGTGATGGAGTTGGAGAGGGTATGTTT CTTGCCCTTGAGAAATCCTAGAAAGCACAGGGATGACA[C/A]AAATCACTAAGGAATTCCTACTAAGA CTCCTCTAACCCAGAGATTTTAACT
NI-4767	50 A G ---			TTCCAGTCTGTTTTATCCTTTTCATTGTCAAAAAGATGCTCTTAGACTGA[A/G]ATTCTATAAAGAGTT CCTCAGGTCTGGGTAATCCTAGATCTTCTATATCCATTGAGTGTGATGGAGTTGGAGAGGGTATG TTCTTGCCCTTGAGAAATCCTAGAAAGCACAGGGATGACACAAATCACTAAGGAATTCCTACTAAGAC TCCTCTAACCCAGAGATTTTAACT
NI-7718f	222 C T ---			ATTGCACTGAAGTTTTTGAATACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGATGCAAGGA TTACAGAACTGATGCCAAGGGCTGAGTGAGTTCAACTACATGTTCTGGGGCCCCGGAGATAGTG ACTTGCAGATGGAAGAGGTGAAAATGAAGAAGGAAGCTGTGTTGAAACAGAAAAATAAGTCAAA AGGAACAAAAATTACAAAGAA[C/T]CATGCAGGAAGGAAAACTATGTATTAAT
NI-7718e	60 T C ---			ATTGCACTGAAGTTTTTGAATACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGAT[C/G]CAA GGATTACAGAACTGATGCCAAGGGCTGAGTGAGTTCAACTACATGTTCTGGGGCCCCGGAGATAG ATGACTTTGCAGATGGAAGAGGTGAAAATGAAGAAGGAAGCTGTGTTGAAACAGAAAAATAAGTC AAAAGGAACAAAAATTACAAAGAACCATGCAGGAAGGAAAACTATGTATTAAT
NI-7718d	31 G A ---			ATTGCACTGAAGTTTTTGAATACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGATGCAA GGATTACAGAACTGATGCCAAGGGCTGAGTGAGTTCAACTACATGTTCTGGGGCCCCGGAGATAG ATGACTTTGCAGATGGAAGAGGTGAAAATGAAGAAGGAAGCTGTGTTGAAACAGAAAAATAAGTC AAAAGGAACAAAAATTACAAAGAACCATGCAGGAAGGAAAACTATGTATTAAT

II-7718c	91	C G ---			ATTGCACTGAAGTTTTTGAATACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGATGCAAGGA TTACAGAACTGATGCCAAGGGG[C/G]TGAGTGAGTTCAACTACATGTTCTGGGGCCCGGAGATAG ATGACITTTGCAGATGGAAAGAGGTGAAAATGAAGAAGGAAAGCTGTGTTGAAACAGAAAAATAAGTC AAAAGGAACAAAAATTACAAAGAACCATGCAGGAAGGAAACTATGTATTAAT
II-7718b	248	A G ---			ATTGCACTGAAGTTTTTGAATACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGATGCAAGGA TTACAGAACTGATGCCAAGGGCTGAGTGAGTTCAACTACATGTTCTGGGGCCCGGAGATAGATG ACTTTGCAGATGGAAAGAGGTGAAAATGAAGAAGGAAAGCTGTGTTGAAACAGAAAAATAAGTCAAA AGGAACAAAAATTACAAAGAACCATGCAGGAAGGAAACTATGTATT[A/G]AT
II-7718a	42	A T ---			ATTGCACTGAAGTTTTTGAATACCTTTGTAGTTACTCAAGC[A/C],TGTACTCCCTACACTGATGC AAGGATTACAGAACTGATGCCAAGGGCTGAGTGAGTTCAACTACATGTTCTGGGGCCCGGAGAT AGATGACITTTGCAGATGGAAAGAGGTGAAAATGAAGAAGGAAAGCTGTGTTGAAACAGAAAAATAAG TCAAAAGGAACAAAAATTACAAAGAACCATGCAGGAAGGAAACTATGTATTA
II-7227d	99	G C ---			AGGGAATTGTTGCTCTGAGGAAGCCAGGCATCAATTAAACAAGCCAGTAGGTCACTGGCTTC CGTGACCAATTTCATCTTTTCAGACAAGCTTTA[G/C]AGAAATGGACTCAGGGAAGAGACTCACATGC TTTGGTAGTATCTGTGTTCCGGTGGGTGTAATAGGGGATTAGCCCCAGAAAGGACTGAGCTAAACA GTGTTATTATGGAAAGGAAATGGCAATTGCTGCTTTCAACCAGCGACTAATG
VI-7227c	291	G A ---			AGGGAATTGTTGCTCTGAGGAAGCCAGGCATCAATTAAACAAGCCAGTAGGTCACTGGCTTC CGTGACCAATTTCATCTTTTCAGACAAG[C/G]TCTTAGAAATGGACTCAGGGAAGAGACTCACATGC TTTGGTAGTATCTGTGTTCCGGTGGGTGTAATAGGGGATTAGCCCCAGAAAGGACTGAGCTAAACA GTGTTATTATGGAAAGGAAATGGCAATTGCTGCTTTCAACCAGCGACTAATG
VI-7227b	93	G T ---			AGGGAATTGTTGCTCTGAGGAAGCCAGGCATCAATTAAACAAGCCAGTAGGTCACTGGCTTC TTCCGTGGACCAATTTCATCTTTTCAGACAAGCTTTAGAGAAATGGACTCAGGGAAGAGACTCACATGC TTTGGTAGTATCTGTGTTCCGGTGGGTGTAATAGGGGATTAGCCCCAGAAAGGACTGAGCTAAACA GTGTTATTATGGAAAGGAAATGGCAATTGCTGCTTTCAACCAGCGACTAATG
VI-7227a	24	A G ---			CCACAATGCCTCTCCACGATGTCAAGGACTCCTGTCTGTCTGGAGTGGGAGACAAGGAACCTCCG AAGAGGAAGCAAGAAAGCCGTACTGTCTATGTTGTATCCTTTCATCGAACAACTGATGCGAAAACT TGAATCTGTTACTGAAATGAGGAGAGAGGACATGTGCTATTGAACCTGAGCCAAACACACTGTAAAT ATCCACAGACTCCCTCCCTGCCCTGCCCATCCCA[A/C]ATGATCTTGAGATTTC
VI-7310b	234	A C ---			

VI-7310a	64 T A ---	---	CCACAATGCCTCTCCACGATGCAAGGACTCCTGTCTGTCTCTGGAGGTGGGAGACAAAGAACCT/A CCGAAGAGGAGGAAAGCAAGCCGTACTGTCTATGTGTGATCCTTCATCGAACAAACTGATCGGAA AACTTGAATCTGTTACTGAAATGAGGAGAGAGGACATGTGCTATTGAACTGAGCCAAACACACTGT AAATATCCACAGACTCCCTCCCTGCCCCCATCCCAATGATCTTGAGATTTC
VI-7878b	162 A G ---	---	CCAGCAACACCTACACCCCTTGTCACCTGCCCTGGACTCCTATGATGGCCTGCTGGTTGATAATAATCA GATCATGCCCAAGACGGCCCTCCTGATAATCGCTCTGGGCATGATTGCAATGGAGGGCAATGGCTCC CTGAGGAGAAAATCTGGGAGGAGCTG[A/G]GTGTGATGAAGGTGTATGTTGGAGGGAGCACAGTGT CTGTGGGGAGCCAGGAAGCTGCTACCCCAAGATTGGTGACGGAACCTA
VI-7878a	51 C G ---	---	CCAGCAACACCTACACCCCTTGTCACCTGCCCTGGACTCCTATGATGGCCTG[C/G]GTGGTTGATAATAA TCAGATCATGCCCAAGACGGCCCTCCTGATAATCGTCTGGGCATGATTGCAATGGAGGGCAATGTC GTCCCTGAGGAGAAAATCTGGGAGGAGCTGAGTGTGATGAAGGTGTATGTTGGAGGGAGCACAGTG TCTGTGGGGAGCCAGGAAGCTGCTACCCCAAGATTGGTGACGGAACCTA
VI-7381c	213 C T ---	---	CTCCACATTCCACAGGCCCTTGAGCAGAAATTTCTGAGACTGAAGGGAATCCCTTTCTTTCTTACC AGCCCTGCAAGTTTCTCATGGACGCTCGCGAGGAGCAGGCTGCAGGTTCTGCCTATGGTGAGATC AGATGTGGCCAAAGGAAGAGCTCTGTTCCAGAGAAATTTGCACAAAGTTCCCTCTGTACAGAGACA AAAGGCCCTC[T/G]GCTCTCAGAGCATAATCCTTGGCAGGGCTCAGCAGG
VI-7381b	54 C G ---	---	CTCCACATTCCACAGGCCCTTGAGCAGAAATTTCTGAGACTGAAGGGAATCC[C/G]CTTTCTTTCT ACCAGCCCTGCAAGTTTCTCATGGACGCTCGCGAGGAGCAGGCTGCAGGTTCTGCCTATGGTGAG ATCAGATGTGGCCAAAGGAAGAGCTCTGTTCCAGAGAAATTTGCACAAAGTTCCCTCTGTACAGAG ACAAACGGCTCCGGCTCTCAGAGCATAATCCTTGGCAGGGCTCAGCAGG
VI-7381a	53 C G ---	---	CTCCACATTCCACAGGCCCTTGAGCAGAAATTTCTGAGACTGAAGGGAATCC[C/G]CTTTCTTTCT ACCAGCCCTGCAAGTTTCTCATGGACGCTCGCGAGGAGCAGGCTGCAGGTTCTGCCTATGGTGAG ATCAGATGTGGCCAAAGGAAGAGCTCTGTTCCAGAGAAATTTGCACAAAGTTCCCTCTGTACAGAG ACAAAACGGCTCCGGCTCTCAGAGCATAATCCTTGGCAGGGCTCAGCAGG
VI-1017b	93 G A ---	---	AAATTGCTCTATTGGACCCCTCATATTAATAAGAGCAATGAGAGCGAGGGAATTTGAACCTCTCTC AGGTACTGACTGTGGGACCAGACAA[G/A]GATGTAGATTGTACATTCAATCCTGAAACAAACCTG CCAGGCAAGTCTCTTCCCATTTTACAAATAAGGAGACAAAAATAGGAGATTAAATAACTCATCAC TGTTTTCAAAATAAGGAGTGTGAGGTTTTGTCCC
VI-1017a	92 G A ---	---	AAATTGCTCTATTGGACCCCTCATATTAATAAGAGCAATGAGAGCGAGGGAATTTGAACCTCTCTC AGGTACTGACTGTGGGACCAGACAA[G/A]GATGTAGATTGTACATTCAATCCTGAAACAAACCTG CCAGGCAAGTCTCTTCCCATTTTACAAATAAGGAGACAAAAATAGGAGATTAAATAACTCATCAC TGTTTTCAAAATAAGGAGTGTGAGGTTTTGTCCC

VI-1795b	130 T C ---			GAAGCAACCAGAAAGTATCTTTATCCCATCTAGATTATGTCTGGGTTCTTCCAGACTCCTACGATTA AATTGTATGCATGTGAACAACACTGATGAGGTACTTAGATCTCAGTGCCTTTCAGAAAGAAAGT/C/C GTCTACCAATTTTACCAAAATTCGTAGTACAATTTAAGTATCTCTTGTATCTCCCTAGGAGTCTAA AGTGAGCTGGGGAAGGCAGGATTT
VI-1795a	47 T C ---			GAAGCAACCAGAAAGTATCTTTATCCCATCTAGATTATGTCTGGGTT/C/CCTCCAGACTCCTACGA TTAAATTGTATGCATGTGAACAACACTGATGAGGTACTTAGATCTCAGTGCCTTTCAGAAAGAAAGT GTCTACCAATTTTACCAAAATTCGTAGTACAATTTAAGTATCTCTTGTATCTCCCTAGGAGTCTAA AGTGAGCTGGGGAAGGCAGGATTT
VI-0616d	136 G A ---			CACACAAATTTGCAAAACACTTCAAAGTGAACGCCCGACATCATCAGCCCGTTAACGTCCAGGCCATGT CCCACATAGAGAACGCTTTACTCCACGTCTCTCCATACGTAGGTCTGGTCTCCTATCACATTGCCA C/G/ATAGCCCTCCCTCCCTCCCTCCCTACAGGCCCTCTTCAGGGCCCCAGTCCCCCTCTGAGACTCCC ATGGATCATTCCTGTTTCTGTATCAGGCAGTGATTTAACTCCTTTTGT
VI-0616c	136 G A ---			CACACAAATTTGCAAAACACTTCAAAGTGAACGCCCGACATCATCAGCCCGTTAACGTCCAGGCCATGT CCCACATAGAGAACGCTTTACTCCACGTCTCTCCATACGTAGGTCTGGTCTCCTATCACATTGCCA C/G/ATAGCCCTCCCTCCCTCCCTCCCTACAGGCCCTCTTCAGGGCCCCAGTCCCCCTCTGAGACTCCC ATGGATCATTCCTGTTTCTGTATCAGGCAGTGATTTAACTCCTTTTGT
VI-0616b	141 C T ---			CACACAAATTTGCAAAACACTTCAAAGTGAACGCCCGACATCATCAGCCCGTTAACGTCCAGGCCATGT CCCACATAGAGAACGCTTTACTCCACGTCTCTCCATACGTAGGTCTGGTCTCCTATCACATTGCCA CGTAGC/C/CTCCCTCCCTCCCTCCCTACAGGCCCTCTTCAGGGCCCCAGTCCCCCTCTGAGACTCCC ATGGATCATTCCTGTTTCTGTATCAGGCAGTGATTTAACTCCTTTTGT
VI-0616a	116 G C ---			CACACAAATTTGCAAAACACTTCAAAGTGAACGCCCGACATCATCAGCCCGTTAACGTCCAGGCCATGT CCCACATAGAGAACGCTTTACTCCACGTCTCTCCATACGTAGGTCTGGTCTCCTATCACATTG CCACGTAGCCCTCCCTCCCTCCCTCCCTACAGGCCCTCTTCAGGGCCCCAGTCCCCCTCTGAGACTCCC ATGGATCATTCCTGTTTCTGTATCAGGCAGTGATTTAACTCCTTTTGT
VI-1126c	52 G A ---			CTCTTATTTCTCTGGGCACCTGCTTTCTTTGGGGGCAAACTTCCAGTATCACTG/A/JATACTAATAA AAACCCCTGTAAGTCTGCTTGCAATTTCAAGATTCAATATATATATCCAGATTGTTTCCAGCAAGAA AATTTTATTTCTCAAGATATAAAAAATAAATAATTTAATTTCAAGTTTCTCAAAAGGAATATGAAATT TGTTAAATGCAATCCAGCTGTAACCTTTTGGACTTGCTTTTATTTCTT
VI-1126b	230 T C ---			CTCTTATTTCTCTGGGCACCTGCTTTCTTTGGGGGCAAACTTCCAGTATCACTGATCACTAATAAAAA CCCTGTAAGTCTGCTTGCAATTTCAAGATTCAATATATATATCCAGATTGTTTCCAGCAAGAAATT TTATTTCTCAAGATATAAAAAATAAATAATTTAATTTCAAGTTTCTCAAAAGGAATATGAAATTGTT AAAATGCAATCCAGCTGTAACCTTTT/C/GGACTTGCTTTTATTTCTT

VI-1126a	97 T C ---			CTCTTATTTCTGGGCACTGCTTTCTTTGGGGCAAACCTCCAGTATCACTGATACTAATAAAAA CCCTGTAAGTCTGCTTGCAATTTTCAAGAT[T/C]CAATATATATCCAGATGTTTCCCAGCAAAGAAA ATTTTATTTCTCAAGATATAAAAAATAAATAATTTAAATTCAGTTTCTCAAAAGGAATATGAAATTT GTTAAATGCAATCCAGCTGTAACCTTTTGGACTTGCTTTTATTTCTT
VI-1183c	124 C T ---			TAGTGCTAAATTTTGGAAAAGTTTGCTGATTTTTAAAAATCTTTTTAAACTTGAAAAATTTAGAGTAC ATATAAATAAATAAAGACCAGATAGGTATTAATTCAGATGATTTTTGCCCTTGTCACCTAACATTT TTTATGACATACAAATGACCAAAAATGATGTTTTATGAAGTGTAGGATAGAGTTTTAAATATTGGT ATGTGGTCTAGAGTTAGTAATGGAA
VI-1183b	192 T C ---			TAGTGCTAAATTTTGGAAAAGTTTGCTGATTTTTAAAAATCTTTTTAAACTTGAAAAATTTAGAGTAC ATATAAATAAATAAAGACCAGATAGGTATTAATTCAGATGATTTTTGCCCTTGTCACCTAACATTT ATGACATACAAATGACCAAAAATGATGTTTTATGAAGTGTAGGATAGAGTTTTAAATTTAAATTTGGT ATGTGGTCTAGAGTTAGTAATGGAA
VI-1183a	118 C T ---			TAGTGCTAAATTTTGGAAAAGTTTGCTGATTTTTAAAAATCTTTTTAAACTTGAAAAATTTAGAGTAC ATATAAATAAATAAAGACCAGATAGGTATTAATTCAGATGATTTTTGC[C/T]CTTGTCACCTAACAA TTTATGACATACAAATGACCAAAAATGATGTTTTATGAAGTGTAGGATAGAGTTTTAAATATTGGT ATGTGGTCTAGAGTTAGTAATGGAA
VI-10770b	174 G A ---			GCTTGGTTGCTTTAGTCTTATTGCTCAGTCTTGAGTTCTCCCTTTCTGCCTGGCCCTTTTGATTTCA CCCATACCTCTATGCCCTGCTCAGACCATTTCCCTATCTGAGCGCTCTTCCCTTGACTTTCTCCTG TTCACCAACCTTCTTTTATTCTTCAGGACACTCA[G/A]TTCACATGCCACTCTCGTGACACTGTCTCT TTCACATCTTCTGTGTCCTTCCCTTCCCT
VI-10770a	49 G T ---			GCTTGGTTGCTTTAGTCTTATTGCTCAGTCTTGAGTTCTCCCTTTCT[G/T]CCTGGCCCTTTTGATTT TCACCCATACCTCTATGCCCTGCTCAGACCATTTCCCTATCTGAGCGCTCTTCCCTTGACTTTCTC CTGTTCAACCAACCTTCTTTTATTCTTCAGGACACTCAGTTTCACATGCCACTCTCGTGACACTGTCTCT TTCACATCTTCTGTGTCCTTCCCTTCCCT
VI-9667b	82 C T ---			GATGACAACTTCTGCTGTGACCCCTTAGTCCCTGCTCATGACACTTTTCAATCTCTGCCCTTGATCATGG TTATCACTGGACA[C/T]AGCCACCTCCCCAGCAGGCTTAGAACCTCATGAGTAAGGGACCCCTGTCTA ATGTGCCGTTTCTCCTTATGGTATTACACACAGTCATAGGCATGGTAGTCAACTAATGGATCTTGGCT GTTTAAACCTTTTCTCTGTACCCAGTACCTAAGTCCAAACTTGCAATCT
VI-9667a	68 G C ---			GATGACAACTTCTGCTGTGACCCCTTAGTCCCTGCTCATGACACTTTTCAATCTCTGCCCTTGATCATG G/C]TTATCACTGGACACAGCCACCTCCCCAGCAGGCTTAGAACCTCATGAGTAAGGGACCCCTGTCTA ATGTGCCGTTTCTCCTTATGGTATTACACACAGTCATAGGCATGGTAGTCAACTAATGGATCTTGGCT GTTTAAACCTTTTCTCTGTACCCAGTACCTAAGTCCAAACTTGCAATCT

VI-0400d	189	A G ---			ACATTTTATTAGCAAAATCAGCAAAATAATAATAGAAAGTAATTGCATTTTCAGACATCTGCTG GTTAACTGTTATAAGATGGTTTAGCACACATGTAAGCAGTACTAACACAATATTTTATTCTAATTTT TCCTTCCCTTACCTTTACTCTCCCAACCAAAATAACGTAAGTACCTATGTG[A/G]TGCCATGTAG TTTTTGGTTCAATTTACTTGCAAAATTATTCAAAGGCGTTAATGCATTATG
VI-10400c	166	A C ---			ACATTTTATTAGCAAAATCAGCAAAATAATAATAGAAAGTAATTGCATTTTCAGACATCTGCTG GTTAACTGTTATAAGATGGTTTAGCACACATGTAAGCAGTACTAACACAATATTTTATTCTAATTTT TCCTTCCCTTACCTTTACTCTCCCAACCA[A/C]AAATAACGTAAGTACCTATGTGCATGCCATGTAG TTTTTGGTTCAATTTACTTGCAAAATTATTCAAAGGCGTTAATGCATTATG
VI-10400b	165	A G ---			ACATTTTATTAGCAAAATCAGCAAAATAATAATAGAAAGTAATTGCATTTTCAGACATCTGCTG GTTAACTGTTATAAGATGGTTTAGCACACATGTAAGCAGTACTAACACAATATTTTATTCTAATTTT TCCTTCCCTTACCTTTACTCTCCCAACCA[A/G]AAATAACGTAAGTACCTATGTGCATGCCATGTAG TTTTTGGTTCAATTTACTTGCAAAATTATTCAAAGGCGTTAATGCATTATG
VI-10400a	46	T C ---			ACATTTTATTAGCAAAATCAGCAAAATAATAATAGAAAGTAAT[TC]TGCAATTTTCAGACATCT GCTGGTTAACTGTTATAAGATGGTTTAGCACACATGTAAGCAGTACTAACACAATATTTTATTCTA ATTTTCTTTCCCTTACCTTTACTCTCCCAACCAAAATAACGTAAGTACCTATGTGCATGCCATGT AGTTTTTGGTTCAATTTACTTGCAAAATTATTCAAAGGCGTTAATGCATTATG
VI-10809b	78	C T ---			AAAGGGCTACAACTAAGGCCAAVAAACCATGAACGGTATAAGGAGGGTAAATGCAAGGGGAGACCC CACCTCTCACCA[C/T]TAGAAVAGGCAATTTCAAGCACATTCATGAGGCTTCATATACTGGTTAG CAACAATGGAATGTATTAGCCAAAGCAGGGTATGGACCAAAAGTGCCAGTGATGAGGCCACA GTGAATATCCACCTAACGACCTTCTTGGATGATGTACACATGACATAGGCTTAA
VI-10809a	33	C T ---			AAAGGGCTACAACTAAGGCCAAVAAACCATGAAT[TC]TGGTATAAGGAGGGTAAATGCAAGGGGAGA CCCCACCTCTCACCACTTAGAAVAGGCAATTTCAAGCACATTCATGAGGCTTCATATACTGGTTAGC AAACAATGGAATGTATTAGCCAAAGCAGGGTATGGACCAAAAGTGCCAGTGATGAGGCCACAG TGAATATCCACCTAACGACCTTCTTGGATGATGTACACATGACATAGGCTTAA
VI-7038c	266	T C ---			CGAGCTTGGGATAAAGCAAGGGGACCTTGGCGCTCTCAGCTTCCCTGCCACATCCAGCTTGTGTCC CAATGAAATAGTGTAGATGCTGGGCTGTCTCTCCCTCCAGGAATGCTGGGCCCCAGCCTGGCCAGAC AAGAAGACTGTCAGGAAGGTCGGAGTCTGTAAACCAGCATACAGTTGGCTTTTTCACATTGAT CATTTTATAIGAAATAAAAGATCCTGCATTTATGGTGTAGTTCTGAGTCC
VI-7038b	140	A C ---			CGAGCTTGGGATAAAGCAAGGGGACCTTGGCGCTCTCAGCTTCCCTGCCACATCCAGCTTGTGTCC CAATGAAATAGTGTAGATGCTGGGCTGTCTCTCCCTCCAGGAATGCTGGGCCCCAGCCTGGCCAGAC AAGA[A/C]GACTGTGAGGAAGGTCGGAGTCTGTAAACCAGCATACAGTTGGCTTTTTCACATT GATCATTTTATATGAAATAAAAGATCCCTGCATTTATGGTGTAGTTCTG

I-7038a	31	G A ---	---	CGAGCTTGGGATAAAGCAAGGGGACCTTGGC[G/A]CTCTCAGCTTCCCTGCCACATCCAGCTTGTG TCCCAATGAAATAGTACTGAGATGCTGGGCTGCTCTCCCTCCAGGAATGCTGGCCCCCAGCCCTGGCCA GACAAAGAGACTGTCAGGAAGGTCGGAGTCTGTAAACCAGCATACAGTTTGGCTTTTTCACATT GATCATTTTATATGAAATAAAAGATCCTGCAITATGTTAGTGTCTGA
I-3429b	64	G T ---	---	ATACGCTTCTGTCTGCCACAGTGGAAACCAGACCCAGGTGGCCAGGGTCCGGCTCCACACA[G/T] CCCTCAGCCCCCTCAGCTTGCATGTGTCCATCGGTGACTCAGCACAGAGTTTCCAACCTCATGTGA CAAAATACAGATCCAGTCTCCTCTCCTGGATTGGATCTAGCAAGACCAGAGACGGTCCCTAGAA TCCTGACTGTTAACAAGCACTCCAGGCAATCTTAAGACCAAGCACGGAGC
I-3429a	62	C T ---	---	ATACGCTTCTGTCTGCCACAGTGGAAACCAGACCCAGGTGGCCAGGGTCCGGCTCCACACA[C/T]AG CCCTCAGCCCCCTCAGCTTGCATGTGTCCATCGGTGACTCAGCACAGAGTTTCCAACCTCATGTGA CAAAATACAGATCCAGTCTCCTCTCCTGGATTGGATCTAGCAAGACCAGAGACGGTCCCTAGAA TCCTGACTGTTAACAAGCACTCCAGGCAATCTTAAGACCAAGCACGGAGC
I-6786c	151	G A ---	---	ATTTAGGACAGTGAAAAAAGGGATTTATAAATAAATCTATGCCATCCAGGAGGTATGTGCAGT GTCCAGAACATCCTAGATGAAGTGGCTTCCCTTGGCGAAAGGATAAAGAGTGAGTGACGGTGACCT GTGAGCCCCATTCT[G/A]TGGGATAAGGTGTCCATTGTTCTTGGAGGGTGAAATGCCACATTTC TTTTGGCAGGGGACACTCCTTCTGGTGTCTATTGCTCAGTTTCATCATT
I-6786b	111	A T ---	---	ATTTAGGACAGTGAAAAAAGGGATTTATAAATAAATCTATGCCATCCAGGAGGTATGTGCAGT GTCCAGAACATCCTAGATGAAGTGGCTTCCCTTGGCGAAAGGAT[AT]AAGAAAGTGAGTGACGGTGA CCTGTGAGCCCCATTCTCTGTGGGATAAGGTGTCCATTGTTCTTGGAGGGTGAAATGCCACATTTC TTTTGGCAGGGGACACTCCTTCTGGTGTCTATTGCTCAGTTTCATCATT
I-6786a	106	A T ---	---	ATTTAGGACAGTGAAAAAAGGGATTTATAAATAAATCTATGCCATCCAGGAGGTATGTGCAGT GTCCAGAACATCCTAGATGAAGTGGCTTCCCTTGGCGAA[AT]TGGATAAAGAGTGAGTGACGGTGA CCTGTGAGCCCCATTCTCTGTGGGATAAGGTGTCCATTGTTCTTGGAGGGTGAAATGCCACATTTC TTTTGGCAGGGGACACTCCTTCTGGTGTCTATTGCTCAGTTTCATCATT
I-6711b	226	G T ---	---	GGCTATTGTAAATGCTTGGTATTGACTCCAAAATTGAATAAGTATTGGGGAAGAATCCCTCACCT ACTTCCAAATCCCTTACATATCAATTTACACAAAGCCCCCTAAACCTTCAGTTCCAATCCTCTGAAT TTCATATACCTCCATTATTAATTCATACATCATTGCAGAGAAAAGACACGGTGCCAACTGGGTT TGGTGGTGCCCTGCACACCCACA[G/T]TGGCAACTAAGTGAATCTCTAAA
I-6711a	36	T C ---	---	GGCTATTGTAAATGCTTGGTATTGACTCCAAAATTTGAATAAGTATTGGGGAAGAATCCCTC ACCTACTTCCAAATCCCTTACATATCAATTTACACAAAGCCCCCTAAACCTTCAGTTCCAATCCTCT GAATTCATATACCTCCATTATTAATTCATACATCATTGCAGAGAAAAGACACGGTGCCCAACTG GGTTGGTGGTGGCTGCACACCCACAGTGGCAACTAAGTGAATCTCTAAA

I- J613b	172 A C ---	---	ATTGTATGCCAAAATCATAATACCCCTGCAATTTCTAGAAACATACAGTGTAAATAGAAATTTTGAGCCATA TGGTGAAAAATTTAGAAAGTATTATTCTCTATATGTATATACTACGTTTAAACATCAATGAATGTGATTT TTTGTCAACTTTTGACAAGGCCAGGCAATTTTATTTG/C/GCCCTAGGAGGGTTACTATAATTTAGA AAGGCTCTTACCTTCCACTCTATAATTTTAAAGTCTCGGACTTAGGATGTAG
I- J613a	44 G A ---	---	ATTGTATGCCAAAATCATAATACCCCTGCAATTTCTAGAAACATACAGTGTAAATAGAAATTTTGAGCC ATATGGTGAAAAATTTAGAAAGTATTATTCTCTATATGTATATACTACGTTTAAACATCAATGAATGTG ATTTTGTCAACTTTTGACAAGGCCAGGCAATTTTATTTGAGCCCTAGGAGGGTTACTATAATTTAG AAAGGCTCTTACCTTCCACTCTATAATTTTAAAGTCTCGGACTTAGGATGTAG
I-7587c	133 A T ---	---	GCTCTAGTGGGAAACCTCAGGTAGCTCCCGAAGATCTGTGCTTTCCAAACAGTGACTACCCCTTGAAGC ACATCCCCCTTCTGGATCTGAAAGAGCCCTTGGCTCAGGGCGTCTTTTCCAGCCCTGAGGAAA/A/ TGGAAATGAACCACTCCCTGCCATTTCCCTATAAGAAATATCCCAAGACCCAGGCAATTTTGCCCTCT TTCCACATGCCCCCATATGTCTGAGCCAAACTGCACTGGGGGCTGCCCTC
I/-7587b	81 G A ---	---	GCTCTAGTGGGAAACCTCAGGTAGCTCCCGAAGATCTGTGCTTTCCAAACAGTGACTACCCCTTGAAGC ACATCCCCCTTCTGGATCTGAAAGAGCCCTTGGCTCAGGGCGTCTTTTCCAGCCCTGAGGAAA AGGAATGAACCACTCCCTGCCATTTCCCTATAAGAAATATCCCAAGACCCAGGCAATTTTGCCCTCT TCCACATGCCCCCATATGTCTGAGCCAAACTGCACTGGGGGCTGCCCTC
I/-7587a	28 C T ---	---	GCTCTAGTGGGAAACCTCAGGTAGCTCCCGAAGATCTGTGCTTTCCAAACAGTGACTACCCCTTGA AGCACATCCCCCTTCTGGATCTGAAAGAGCCCTTGGCTCAGGGCGTCTTTTCCAGCCCTGAGGAAA AGGAATGAACCACTCCCTGCCATTTCCCTATAAGAAATATCCCAAGACCCAGGCAATTTTGCCCTCT TCCACATGCCCCCATATGTCTGAGCCAAACTGCACTGGGGGCTGCCCTC
I- J681b	103 T A ---	---	ATGACTCAGGTGACAAAAGAGCATGTCCTAGACCCCATTTGACTTACGCAAACTCAATCAGCCAAAC ACAGAAAAGCTAAAGACATCCTTTTAAAAAGCC/T/AJAAAGACAGCCATTTTAACTTAATTCG TAGTTTATGATTTTCTCAAAATTTCCCAACACACAGAAAGAACTTCAAGGTTAGGTTCTAATGTTA CCATTGCTAACACTATTGTCTTTGGAGAAAGGAGGTGACGCTCTGTAAAG
I- J681a	41 A T ---	---	ATGACTCAGGTGACAAAAGAGCATGTCCTAGACCCCATTTGACTTACGCAAACTCAATCAGCCAA ACCACAGAAAAGCTAAAGACATCCTTTTAAAAAGCCCTAAAGACAGCCATTTTAACTTAATTCG TAGTTTATGATTTTCTCAAAATTTCCCAACACACAGAAAGAACTTCAAGGTTAGGTTCTAATGTTA CCATTGCTAACACTATTGTCTTTGGAGAAAGGAGGTGACGCTCTGTAAAG
I/-7222c	126 G T ---	---	GCCTCTCCTCAACTGTCTGGACCCAAAGGCTAGGAAAGGGCTGCTTGAGATGACTGTGGTCCCCCTT AGACTCCCTAAGCCCGAGTGAGCTCAGGTGTACCCCTGTTCTCAAGTTGGGGATGGG/G/TAATAA AGGAGGGGGAATCCCTTGAACAAGAAAGAACTGGGGATAGTTATATTTCCACCTGCCCTTGAAGCTT TAAGACAGTGATTTTGTGTAAGGTTGTATTTCAAGACTCGAATTCATTT

lI-7222b	255	G A ---	---	GCCTCTCCTCAACTGTCTCTGGACCCAGGCTAGGAAGGGGCTGCTTGAGATGACTGTGGTCCCCCTT AGACTCCCTAAGCCCGAGTGAGCTCAGGTGTCACCCCTGTTCTCAAGTTGGGGATGGGAATAAAGG AGGGGGAATTCCTTTGAACAAGAAGAACTGGGATAGTTATATTTCCACCTGCCCTTGAAGCTTTAA GACAGTGATTTTGTGAAGGTTGTAATTTCAAAGACTCGAAATTCATTTCTCA
VI-7222a	126	G T ---	---	GCCTCTCCTCAACTGTCTCTGGACCCAGGCTAGGAAGGGGCTGCTTGAGATGACTGTGGTCCCCCTT AGACTCCCTAAGCCCGAGTGAGCTCAGGTGTCACCCCTGTTCTCAAGTTGGGGATGGG[G/TT]AATAA AGAGGGGGAATTCCTTTGAACAAGAAGAACTGGGATAGTTATATTTCCACCTGCCCTTGAAGCTT TAAGACAGTGATTTTGTGAAGGTTGTAATTTCAAAGACTCGAAATTCATTTT
VI-8054d	41	C A ---	---	AAAGATGACACTTAGAACTGGATCAGTGGCCCTTCTCTT[C/A]TTATCTCTCCAGTTCAAAATG CTTGCACTCTTTAATAGCCAGCATTCCTTAGATCTGCAGTTGGGCTCAACGCACCTCAAGCCCTTAGCA CAATCTCTTTGTAGTTTAGCCCTTTTCCGGAAAATCGGCTTAGTTGCCCCACCATAGCCACTCTGCT TCCTGTCAACGCCGCTTCCCTGGCGTACAGAGATCCTTGCCCTT
VI-8054c	237	G T ---	---	AAAGATGACACTTAGAACTGGATCAGTGGCCCTTCTCTTCTTATCTCTCCAGTTCAAAATGCTT GCATCTTTAATAGCCAGCATTCCTTAGATCTGCAGTTGGGCTCAACGCACCTCAAGCCCTTAGCACAA TCTTCTTTGTAGTTTAGCCCTTTTCCGGAAAATCGGCTTAGTTGCCCCACCATAGCCACTCTGCTCC TGTCATAACGCCGCTTCCCTGGCGTACAGA[G/TT]AATCCTTGCCCTT
VI-8054b	148	T C ---	---	AAAGATGACACTTAGAACTGGATCAGTGGCCCTTCTCTTCTTATCTCTCCAGTTCAAAATGCTT GCATCTTTAATAGCCAGCATTCCTTAGATCTGCAGTTGGGCTCAACGCACCTCAAGCCCTTAGCACAA TCTTCTTTGTAGT[C/TT]TAGCCCTTTTCCGGAAAATCGGCTTAGTTGCCCCACCATAGCCACTCTGCT TCCTGTCAACGCCGCTTCCCTGGCGTACAGAGATCCTTGCCCTT
VI-8054a	131	C G ---	---	AAAGATGACACTTAGAACTGGATCAGTGGCCCTTCTCTTCTTATCTCTCCAGTTCAAAATGCTT GCATCTTTAATAGCCAGCATTCCTTAGATCTGCAGTTGGGCTCAACGCACCTCAAGCCCTTAG[C/G]A CAATCTCTTTGTAGTTTAGCCCTTTTCCGGAAAATCGGCTTAGTTGCCCCACCATAGCCACTCTGCT TCCTGTCAACGCCGCTTCCCTGGCGTACAGAGATCCTTGCCCTT
VI-8054b	152	G T ---	---	TTCCACAAAACCTCCCTGGCCGGGTGACTAAGATGAGAAGTGGGAGAACTGGATAGTTTAAATAA ATGTTTATATTTACTTTAAAGCGAAGTTGAAACACGACGATAGTTAAACGCTGCTGTAAGTTTAT ACGGGTGCGAGGCAACA[G/TT]GGAGAGGTACGGGAATAGTTCTACTTCCCTGTTTTTATTCTTG TTTAGACACAGGCTGCTGTGTG
VI-8054a	102	C T ---	---	TTCCACAAAACCTCCCTGGCCGGGTGACTAAGATGAGAAGTGGGAGAACTGGATAGTTTAAATAA ATGTTTATATTTACTTTAAAGCGAAGTTGAAACA[C/TT]GAAGACGATAGTTAAACGCTGCTGTAAGTT TATACGGGTGCGAGGCAACAGGAGAGGTACGGGAATAGTTCTACTTCCCTGTTTTTATTCTTG TTTAGACACAGGCTGCTGTGTG

I-9826b	127	G A ---	---	AAATTTATATGTAAGGGTTAGCAAACTATGCCCCACAGGCCCAATCTAGCCATGCCTATTTTTGTG TGCCTGATGGCTGTTGGTGTTTGCACGCAGTTGAGCCATTGTGACAGAGGCTGTTATG/AIGCCTT CAAAGCCAAAAAATAATTTACTCTCTGCGCTTGACGGGAAAGTTTGCTGATTCCTAGATATTTAA GGCAGAGAGATCAGAAGTGTGAA
I-9826	125	A T ---	---	AAATTTATATGTAAGGGTTAGCAAACTATGCCCCACAGGCCCAATCTAGCCATGCCTATTTTTGTG TGCCTGATGGCTGTTGGTGTTTGCACGCAGTTGAGCCATTGTGACAGAGGCTGTTATJTGCCCTTC AAAGCCAAAAAATAATTTACTCTCTGCGCTTGACGGGAAAGTTTGCTGATTCCTAGATATTTAAAG GCAGAGAGATCAGAAGTGTGAA
I-15986	60	T G TGGGTTTT	TGACATTATAT AAACGTAAAA GAAAATGT	CGGACACGTTGATATACAAATACAGATCGTATGGGTTGTTGTGTGGGTTTTTTTTTJ/GJTTAC ATTTCTTTTACGTTTATATAATGTCAGCATTTCAA
I-8655	29	A G A G	CCACCTGGGGC TCCC	TTCAAGTAACTGCAAAATAGGAAACCAGAG/A/GJGGAGCCCCCAGGTGGGACAAATCATGGCTACCC TCCCCAACAGAACAGGGGGAGGAGGTGGCCCTACACCCTTTAT
I-8170b	259	G A ---	---	GCACCTCTCTCTGAGCAACAGGTACACTTTTTTCTCTAACATTGATCTATAACACACCAGAACCG TGTTTTAATAGCTGCTGATAAATGAACCTATTTTTAAGTACTCTACCAAGATGCTGTGGTAAGGTTAG CAITTTGGTGGAGAGATTTACAAGGTTAAGATCATGTGCCATCAAAGTGCAATCCTATCAATCAGAA ATAAAGGTAAAGGGCCCTCAAATGAAATCTACGGAAAAACATAACACAAGA
I-8170a	204	T A ---	---	GCACCTCTCTCTGAGCAACAGGTACACTTTTTTCTCTAACATTGATCTATAACACACCAGAACCG TGTTTTAATAGCTGCTGATAAATGAACCTATTTTTAAGTACTCTACCAAGATGCTGTGGTAAGGTTAG CAITTTGGTGGAGAGATTTACAAGGTTAAGATCATGTGCCATCAAAGTGCAATCCTATCAATCAGAA A/T/AJAAAGGTAAAGGGCCCTCAAATGAAATCTACGGAAAAACATAACAC
I-8172	136	C G G A C A	GAAGAGAAAT GTAATACCTGT AAAGGTAC	CAGGATTCCTTAAGTCATCTTCCAATACTCCAGGTACATGGTGAAGATCACCTGTTAAACACGAA ATCTAACCAATTAACAAGCTTTTAAATCCTTCGGTAACCTCTTATTAAATTTGTTTCTTGACAT A/C/GJAGTACCTTTACAGGTATTACATTTCTCTTACCCGTTTACA
I-8183	56	G A T G C	TGAAATAAAA ACAAATTTCTGT	AGCAGGGTTGAAATTGATCCCTTATTTACATGAAATAAAAACAATTTCTGTTCG/AJGCAGGTT TGATTTCAACACAGTTGAATCTGTAAACCAAAAGCTCGTTTCTGATGCAGGACAAAATATCCACAAT ATTTAAACTGCAAGCACCATGC
I-14149	83	C T ---	---	GCCTTATTTGGGATTGCAAGCGTTACAAGGTTAAAGACAAAACCAAGCATGGGATTTTGCCCGAAAT ATTAGCGTTAAAGGAG/C/TJGAGTTGAGTCAAAACACGGG
I-8712	44	G A G	CACAGGGAAG AGGTAGTGGA ACCATCTC	TCAACAATGACACTGTGTAAACAGCACAGGGAAGAGGTAGTGGAG/G/AJGAGATGGTCAGGCTTCCTG TTCTTAACAGCAGAGCCCCAGCAACCTAGAAGCGCCTCACCTAGCCTCTTAAT

NI-8827	22	C T	TOOCTGGGAG ACTATGG	GCATTAGGAT TTTAGTGTTCA C	GGTGCCCTGGGAGACTATGG[C/TA]GTGAACACTAAATCCTAATCGCCATGCATTGGAATTATT CCGACTATTACTTTCTTAGTTCCTTCTTATCCACCCAGTCTTCT
NI-8833	51	A T	TCTTCATGCC ATTCTCTG	CCTCACACATT ATAGGGCA	CTCGGGCTCTTAAAGCTCTCTGTAGACTGTCTCTTCCATGCCATTCTCTG[A/T]TGCCCTATAATGT GTGAGGGTATTACAATAGTCCCTATTCAAACCTGCCTTGTCATAAAGGTCAGCTATGT
NI-8377	63	A G	---	---	ATTTTATGCCATGTTGGTAAAGTTCAATTTTTCAGTACATGGGTACACCCAGGCCCTTTCCCA[AG/T] TATATCCAGGTATGCTACAAGTTCTTTTAACTTATCAGAAGTTATTAATTACTGTTTCTTAGAGAG GCTACCAGGCTAAATTCACCTAGTTGGTTGTCTAATGTCTCATTTTATCCTGAAGCTCGTG
NI-8850	21	A G	GGGACTTAAC CTTTGGCT	CAACAGCCA GGCAGG	GAGGACTTAACCTTTGGCTT[AG/C]CTGCCTGGCTGTTTGGCTCTGCGCTTGCTGTTTTGGTTCTT TCTCTTCTACTGGTCTTTCTTTTGTCTTTGCCAGCCACCTATGCTGCTGT
NI-8853	79	C T	CCCGGCATTG AGGATA	AGTCTTCTGA GCCITCCAT	ACTTTCTTGAGCTGAGCAACCTCATCTCTTTAGCTTCTGGTTGATAACGCTGGTTAATCCCCGGG CAITGAGGATA[C/TA]TGGAAGGCTCAGGAAGACTTTCATTCTCAA
NI-8865b	52	A G	---	---	AGGGTGACTGGAATCACAGGCACAGACTGAGGAAGACAGTGTGTCGAACA[AG/G]ACAACATGCT TCGGACTTACCAAAGGAGAGTCGAGCTTTCCATATAAA
NI-8865a	42	T C	CACAGACTGA GGAAGACAGT CA	GGTAAGTCCGA AGCATGTTG	AGGGTGACTGGAATCACAGGCACAGACTGAGGAAGACAGTCA[T/C]GGTCGAACAACAACATGCT TCGGACTTACCAAAGGAGAGTCGAGCTTTCCATATAAA
NI-8895	32	A C	---	---	GTGCCACAAACCTGGACACCAACCAACAGAA[T/AC]CTCCCGTCTTTGAAATTTCCATTAAAGACA CAATGGGGTAATTATACAGGGATGCTCCAATCGCTCTTTC
NI-8456	93	G C	---	---	CCTTTAAAGTCACAGTCAACTCGACTGTGGACTGATATATTGTGAATATAATAAAGTCTTTTCC AAGGCTCCCATGCTTGGATGTCACA[G/C]TTATGTCAAGTTAATAAACAATTTCTAAGTGCTCACTC TCAACTTCTGTGTTATCTTGCCATGGTCCAGTAACAGTTCACACGGCAGACCACAAGTTGTGTAGCAC TGGCATAGACGAGGGCTTCTCAAACCTCCCGTCTGCGTCTCAGTCAACCCAC
NI-8496b	157	A G	---	---	TTTCATCATCAAAAGTTTCTTTCCATAGAAGAATGGTAATGTTGTATCAGTGCATATTCTATGAAA ATTATATCTCAAGTAAGTACTAGCTAGAAATCAGAGACAGCAGTATGTCAAGCTAGTATACAAGTCA AAGACACAATGCTGCCAATGCA[AG/T]TAGTATATAGAAATAATACGCAAGCTGTTAGAAAAAGTCT GTGGCCAAAGTGGGATAAAACAGTAGCAGTGAC
NI-8496	41	G A	---	---	TTTCATCATCAAAAGTTTCTTTCCATAGAAGAATGGTAATGTTGTATCAGTGCATATTCTATGG AAAATTCATATCTCAAGTAAGTACTAGCTAGAAATCAGAGACAGCAGTATGTCAAGCTAGTATACAAG GTCAAAGACACAATGCTGCCAATGCAATAGTATATAGAAATAATACGCAAGCTGTTAGAAAAAGTC TGTGGCCAAAGTGGGATAAAACAGTAGCAGTGAC
NI-14153	28	A G	GTGAGGAAG GCCAGC	AACGGCAGGA GGGA	CTGCAGGTCTATGTGCAGGAAGGCCAGC[AG/T]CCCCCTCTGCGGTTGTCAACCCACATCCACAGAGCA GCCCTAGTGCAGGTGCAGGCACCTGCCACCCACAGGCACACGGGAACAGGACCCCAIGCTGC

352a	69	T C G	AGCACAGCAC ATAGTGGAAA	GACCTCTCGTA GGACACTTAGC	TGACACATGGTTCTGTTTCCAGAAAGGAGAGAGATCATCTACATAAGCAGCAGCACATAGTGGAA AGTTC/GCTAAGTGTCTACGAGAGGTGAGATCATATCCATAGAAAAACAGCTCTCTTTTACTTTGCA CACTTA
-11371	84	C T G	CAGCTGGAG ATTCTGATTCA	GCCCCGCCCTGA GCAC	TTAGCCCATGCTGTGTCATTGGCAATCACCTGTGAAACCTATGAAAACTATACCTGCCAGGCTCAGCTT GGAGATTCTGATTGAGTC/GTGTCTCAGCGCGGGCTGGACATCCATGTTGGGAAGAGTTGCGCGGGT GATTCGATGCGTATAT
-11385	75	T C G	ACAGAAGACT TTCATATTCTT	GATTCATTCT AGTCATGGTCA	CTTAAAGCATTATAGTTGGCTGATGGTGACACAGAGACTTTCATATTCCTGTTTTTAAAAAGTC TCTTCAGTC/JAGGAAAAAAGCTACAGATTTAAAAAATATGACCATGACTAGATAAGAAATCAGC
-11388	88	C A A	ACACGTAAC AAGTTC	CAAGTTAAAA T	TCATGTGGCCAGTTAGCTCAGTTGGTTAGAGTGTGGAGCTCATAAAAAATTTAAAGAATGAATGTTTG AAATTACACGTAACTAAGTTC[C/A]TATAAATTTTAACTTGGATACAAGGCATTGTTATGCTAAT
-11392	55	T G A	GGTTATGTGT CTTGAACITTA	GTACATTCACG TGTTTTGTAA	TTCTATCATTCCTAAATGGGCAGGTTATGTCTTGAACITTTAATAATAC/T/GCTTTTTTACA AAACACGTGAATGTACTTTCTGTGAGAAGGGGAACACTGAGTCTCCGCTCTAGATCCATTAACTGT CATACTCTTCCCCAGA
-11396	52	A T T	TTTTGTTTTG AAATGGTGTTT	AGCTTATTTTC ATATTCACCCA TC	AAAGAAATAAGATGGCAATTTGTTTCAGTTAAATTTTGTGTTTGAATGGTGTGTTTATGATGGGTGAATA TGAAATAAGCTTACCTCATCCACTCTAAAGGTAGTTGGTGAATTTTGAACCGTTGTCAAT
-11441	100	C A C	TCCCCACCAAC CAGC	TGCCAGGGCCT TATTTG	CTGTGAGTCTTCCCACCTAAACCGTGAGTCCAGTATGTCTGGCAGCAGTCTGTCTGTTCTTGGTG TATTTCCCATTAAGTGAATCCCAACCAACAGC[C/A]CAATAAGGCCCTGGCACAAGTAAGTCTCTCC ATTTTGTAGAAATGAAT
-11466	26	C T T	TGAGAAGCCA TTTATTTTGA	GTTTATTGTTA TAAAAATGAC CTACAAGCT	ACTTTGAGAAGCCATTTATTTTGCAG[C/T]CTTCAGTCCAAAAAAGTCAACATTTTCAGAAATTTTT TATATAAGTTGTAGGTCAATTTTATAACAATAAACTTTCTATTATCTATTTATCTCTCACATACATTT CATGTATCCTG
-11364	35	A G ---	---	---	TTTTCTTTTGTGCTCTTTTTTTTAGTAGAAGC[A/G]GGAACAGTTGTCAATACTACCTTCTGTTGG TCCCCTGTTAGACAACATACCTTTCTTTGAAATGTAAAAATGTCA
-11276	41	A G	GGCAGCCAGG AGCAGAC	TGTACTGAGGA GOOGTG	AGGCAACACTGCTTTATTAGCGCGGCGCAGCCAGGAGAGAC[A/G]CACCGGCTCCTCAGTACACATT CCCCACCCCTGCTGCTGGTGTCTCCCACTCAGGGCTGGGCATGGAGGGGCGAGCTGAGTCTGGAA
-12210	76	A G A	ACTGGGAAAA CAACTATTGC	TGCTAGTTTGC ATATGTTTTCC	ATTGGAAACAACCTTAATAATTTGCATCTCTACATATAGAAAGCTGCTTTGAATAACTGGGAAAAACAA CTATTGCAAT[A/G]GGAAAAACATATGCAAACTAGCATCATTTGTCTCTAGA
-186b	88	A G ---	---	---	AATGGTCTGTTTTTATTGAGAAGCTGTTGGTCAATTTGATGAAAAGACACATACGGTACAAAAATTACA GGTGGTTAGTTCAATACATG[A/G]TACAAATCATTAGAGTCTTTACAAGTCATTAGAGTCTTTGGAT TTT

36a	52	C T A	GGTCATTTGAT GGAAAGACAC	AACATAACCA CCTGTAAATTT GTACC	AATGGTCTGGTTTATTGAGAAGCTGTTGGTCATTTGATGGAAGACACATA[C/T]GGTACAAAATT ACAGGTGGTTTAGTTCATTACATGATACAAATCATTAGAGTCTTTACAAGTCATTAGAGTCTTTGGAT TTT
2234	66	A G	GAGAACACTT GTGGGCTT	GGACCTATCAG TCCATGTTGA	ATTTTTTTTGGCTATAGGTCAGTGTCTAAACCTTGAGCTTGCAAGAGAACACTTGTGGGGCTT[A/ G]TTCAAACATGGACTGATAGGTCACCCAGATTTCTAACTGGTAGGCTGGGGTG
2345	37	C A	GTGGCAGGAA AAAGAGGAA	TTGCAGAGGG TTCAGG	GGAACAGACCTGATCCACGTGCGAGGAAAGAGGAA[C/A]CCTGAACCCCTCTGCAAGTATCTCT TTCTGACCAGCTGGGCTTGGCAGCTTTGTGAGATTTGCAAAA
13416	71	C A AAA	AAATTTTGG AAGTTTTTCAG	AGTGTATTATAG TTCAATGAATA ATTTCAA	GAAAAAGGCTGTAATTTTATTTTCAAATTTTGGAAAGTTTTTTCAGAAAAAATAAATGACAAGAACA CATA[C/A]AAATATTGAAATTTATTCATTGAACATAAACACTTAGCAGAGGAGGACTTTTGTAT
2310	46	G A AAAAGC	TTATTTCCCAAG TATAATTTTA	TGTTTAAATAT GTTTGGGTCT AAA	TTTGAAAAGATGCTGAATTTATTTCCCAAGTATAATTTTAAAAAGCT[G/A]TTTAGGACCCAAACATA TTTAAACATCTCTTACACATACAGAAATTTTCAATATTTCCAGAAAGGCAATTTTCTTAAGCAG T
2086	72	C T TTGGATT	CCGGGAAAAAC TTGGATT	GGAGTCTCGG GTCTTGG	GAACCGAGCTTTATTGGAGCAAGAGTGTGGACACTGTTTACAACAAAACGTTTCCGGGAAAAACTTG GATTT[C/T]CCAAGACCCGAAGACTCTCCAGTTCTCACTGTTAGTAAGGTCAATTTGGGGGCAGA ACAGGAACATGCCTTAGCT
1549	102	T G TTTATG	GCATAAAAGT TCATAATATTC	GGAAAGTCTGT ACAAATCCCC	ATGCTTTCACAGGTGATTTTGTAAAGAGTTTGTCTATCTAAATTTTCATATTTATTTGGCATAAAGT TCATAATATTTCTTTATGATCTTTTAAATATCTG[T/G]GGGATTTGTACAGACTTTCCCTC
1585	79	T C AAACAAAA	TGGGTTTGCAA AAACAAAA	CCATGCTTCAC TGATACTCC	TTAGAAGGAAAGAAATAAAACACGGTAATGGGAAATCAGTTTCAGAGGTAGGAAGGAGCTGGGTT TGCAAAAACAAAA[T/C]GGAAGTATCAGTGAAGCATGGCCTAGAAGTCCAAAGAGCAGGGGTAGAGT TT
1604	68	G C ---	---	---	TTAGTTGGTTTCTGAAACTTTATGCTGTTTATTTTAAACCAATAGGATGTTCCAGTTACAGCATTTT G/CJAGAACTAGGGACTTTTCCATGAAATAAATAAGAGCTAAGGAATTTCTGACGCTCACCATTTTTC TTTGTTACTCTGCAGTT
4c	108	C A ---	---	---	CAAAATCAAAAATTGAGGAGGCAAGAACAGAAAGTAAATCCAGAAGACTCAGCTGCTTGAGGCAT GTTCCACCCCTGGACTTGCCAACTTTCACTGTGAAACTGCAA[C/A]ATATTAAAGTATTCGTCAGCTAC GGACTTCGT
4a	60	A G CAGCTGCTG	CCAGAAGACT CAGCTGCTG	AGGGTGGGAAC ATGCC	CAAAATCAAAAATTGAGGAGGCAAGAACAGAAAGTAAATCCAGAAGACTCAGCTGCTTG[A/G]GG CATGTTCCACCCCTGGACTTGCCAACTTTCACTGTGAAACTGCAACATAATTAAGTATTCGTCAGCTAC GGACTTCGT
3b	83	T C ---	---	---	TTGATTTTACTAAGGCTTCCACTGGAAACATGAAGGTAGGATAAGTGTACAGGATAATATACTCAG ATATTTTAAAAATAAA[T/C]TACTTAATAATAAGAAATTAGCCATACCACATTGTTCCATTGCTAC AAGAACAATTTGGCAATGA

326a	39	G A G	TCCACTGGAA CATGAAGGTA	GTGGTATGGCT AATTTCTTATT ATTAAGT	TTGATTTTACTAAGTCTTCCACTGGAACATGAAGGTAG[G/A]GATAAGTGTACAGGATAATATACT CAGATATTTTAAATAAAATTACTTAATAATAAGAAATTAGCCATACCACATTGTTCCATTGCTAC AAGAACAATGGCAATGA
11627	23	T C A T T G T C T C	CCTTTCCITCC CATCTCAAG	CATTTGCAACC CATCTCAAG	ACCCCTTCCITCCATTGTCTCTQ[C/T]CJCTTGAGATGGGTGCAAAATGGGAAGTAAAGCAAAAAGGG AGATGAGAAATAGTATGCTCTTTTGTCTGGCTTACTTCCATTGCGATGTCAAGTCCATCCATG
11636	61	A G T C C T	GGACTTAAAA AGATCTGCTTA T C C T	AGAAACTTGGT AAATATTTTAT GTAACACT	TCAGAAATGTTGCAAGCAAACTACTATTTGTAAAGGTGGACTTAAAGGATCTGCTTATCCT[A/G]TA TATCCACATAACTCTAGTGTACATAAAATATTAGCAAGTTTCTGTGACAGGTGCTCAGTAAACAC TTTGACTCCITTTTGGTA
11537	119	C G T	ATTGCTCATCT TACTCTGACCA T	GACCCAGCAA AAAGAATGAT T	GTACCATTTCTTATGGTGGCAATAAGCAAACTGTGAGTAAACGAGGGCAGCTGAAATAATTTACAG TATACAATATTAGAGAATAATTATGTTGCAATTGCTCATCTTACTCTGACCAT[C/G]ATAATCATCTT TTTGCTGGGTCCAGGACC
11654	37	G C C T G	GCCAAAAGAC TATTCAGCAA C T G	GGCTCTCCAG GACAGTTT	AGTAGAACATCAGTGCCAAAAGACTATTGAGCAACTG[C/G]AAACTGTCTGGGAGAGCCACTCCAG AGCTATTTCTAAGACTTTCTGTGGTGTTCATCTACTCTCAGAGTTCACACTCATATTTTCATATTTTT ATTTTGGGTGTTGGGT
11656	28	G A A A	ATTGATTTTAG AAGGAACTGC A A	CAAGGCTTTGT CCTCAAGTAAA	ACCTGATTGATTTTAGAAGGAAGTCAA[G/A]CTTTACTTGAGGACAAAAGCCTTGCCCTGCAGTTGTTT AAATGTCTGAAACAATCAGATTCCAGCCTGGAT
11680	55	T C	---	---	ACAGATACTTTTCCACGCAACATTTCTGAAATGAAAGCTTTGATTCTCCCTTTT[C/T]TGCAATAA GGCTGGGAAGGTGGTTGGCCAGACCGTACATCTTTT
11696	47	T C A G G G A C A G	TTATCACAGC C A G G G A C A G	GGCATTAGAGA AGCCAACTT	GTCCAAAGAACAAAGATACTTTTGACATCTTTATCACAGCAGGGGACAG[C/J]AAGGTTGGCTTCTCTA ATGCCACCATCTTGTTTTCAGAACTTTCCACTTCCGCTG
11702	69	C T C A G C A G	GAATAATACT GAAATAACCA C A G C A G	AGAACAACCTT AAGCAAAATTAT ACTGAAA	TTACATGTGGTCAATGTGACATACTTTCAATAATTAATAAATCGAATAATACTGAAATAACCAACAG AG[C/T]TTTTCAGTATAATTGCTTAAGTTGTTCTAGAAAACACTGCTAATTTTGTCTGCAGA
11706	60	C T T C T C T C T	TGGCTGGAATT T C T C T C T	ATCACCAAAG AACAAATTCCA	TGCTGATTCATCGCTTCTACCATCTGGCTGGAATTTTCTCTTCTGTACAATTTATTTGC[C/T]GGCTG GAATTTGTCTTTGGTGATTGTCCCTTGTCTGT
11709	105	T A T T C A G T T T G C	AGAAGCTTGC T T C A G T T T G C	TCATTTCTTCT AATTTTACGGG A	AATATCATCACTCATATCAGGCATGTTTATAAAAATGAGAGATTATGTCCTTTTGGCATACTTCATC TTCTTCAGGACACAGAGAGAGAGTGTCTCAGTTGCT[A/G]TCCCGTAAAAATTAGAAGAAATGAAT GGCCAGATGGATGGAANA
11710	103	C A C A G T C T C A	GCACCTAGCCT C A G T C T C A	GTGTGGAGGAG GGAGGAG	TTATTACCATCAACCTGTCCCAAGCTTTCCAGCAACAACAGCCAGCCCACTCTAGACACGCTTCAC TCCAGTCCATTCTGGCACCTAGCCTCAGTCTTCAG[C/A]CTCCTCCCTCCCTCCACACACTCCTTC

'15b	123 C T	AGGCTGGCTGC AGCTT	TCCCCATCCTG TGCTT	AGAATGGAGCTGTTGGGAGGGACATGCACACAATGTAAACAGACAAAAATGCATTACAACCTGTGG TGTAATGTGGCCACTATGAATCCCTATGTATAGAGGAAAGAGGCTGGCTGCAGCTTCTTAGCCAC AGGATGGGGAAGTGGGAAGA
715a	49 A C AAA	GCACACAATG TAAACAGAC AAA	CATTACACCAC AGTTGTAATGC A	AGAATGGAGCTGTTGGGAGGGACATGCACACAATGTAAACAGACAAAAA[AC]TGCATTACAACCTG TGGTGAATGTGGCCACTATGAATCCCTATGTATAGAGGAAAGAGGCTGGCTGCAGCTTACAGCCAC AGGATGGGGAAGTGGGAAGA
-11727	43 G C TCAACA	AACAATCCTT AAAACAACATA	CCTGTGGTTTG TGTTGCAG	CTGGATTTCTTATACCTAACAAATCCTTAAACAACTATCAACA[G/C]CTGCAACACAAAACACAGGC AAAATGAAAAACAGATGCCCCAGACAGCACCCACCCACCATGGCACACAC
-11728	16 C G ---	ATCTGTGGTTT TCGCTG	---	TTTTATTATCAAACT[C/G]CAATTCCATTTACAAAATGTAAGTTATCATCAGCTCCCCATCCACTTT CTCCCATCTTCTTATCTCTTCCACCTTACACTTCTCTCCCTACAACCCGGGTTCCAAA
-11758	61 A G TCGCTG	GCCTCACAAA GTATTTCTAA	TGATTGGCCCT GTGGTCTA	TTTTCCCTCTTTTATTAAAGTCCGCTATACTAACTAGAGGAGAAATCTGTGTTTTTCCGCTG[A/G]TAG ACCACAGGGCCCAATCACACAGCTTCTGTAGAGAACATGGAGAGTGCCAAAGATCACCATCA
-11295	37 A G AATATA	GTATTTCTAA T	TCTGTGAACCTC T	CCGGCCTCACAAAAGTATTTCTAAATATAATTTGCT[A/G]TAGAGTTACAGATGAGCACTTTTCA CAITAGGIGATATGCAACAAATCACTATTGGCTCAGCAGGAAACAGACTTTT
-11773	93 T C ---	GGCTCAGAGA GCAAGGGAA	---	AGCATATGATATCTGCCTGGAGTTTCTGTGAGCTCAGCAAAACAGCAGAGTCAGAGATTAAAGAATT ATTTATGGCTCTCTTTTCTCCCT[C/G]GTGATTGTTAATTAGGGAGTCAAGGCCAAGTTATC
-11282	42 C G GCAAGGGAA	GGCTCAGAGA GCAAGGGAA	AAAACCTCAGA CTGTAAATTTT GTGTG	CATGACAACCTCTTTATTTAATGGGCTCAGAGAGCAAGGAA[C/G]CACACAAAATTTACAGTCTGA GTTTTGCGCGCAGAGACCCCTCTCCACCTTTTTCATGCTGTGTACACACACACTGTCCCAAGCCTC AGA
-11790	28 A G AAACCTCTG	CCCAACTTACC AAACCTCTG	CGGTAGGCGAG GCTAAGC	TAATTCACCCCAACTTACCAACCTCTGT[A/G]GCTTAGCCTCGCCTACCGTACACATGCTCAGAGCAC TTACATTAACTTACAAATGGGCAAAATCATCTAACACAAAGC
-11879	61 C A AGTATACA	TCATCTAATCT GTGAGGTATTT	GATAGTTGAAC CTCTTCACTTT ATAAAA	TTTTAATCCCAAGCTTACAACCATCTTTTCACTAATCTGTGAGGTATTTAGTATACAG[C/A]AGT GATTTCTCTCTTCTCTTTTATAAAGTGAAGGTTCAACTATCCAGACAGTCCCATCTA
469b	91 C T AAGTTTAAA	GTITTTAATGT GGTATTAGAA AAGTTTAAA	CAATTTTCAGA TTGTCTATAGC AAAC	TTTACTAATTTCCATTTCTCCCTTTTATAGTTTTTAAATGTGTTATTAGAAAAAGTTTTAAATTACAT ATGTGGCTTATATTCTATTCTA[C/T]TTGACAGCACAGTTCTTCAAAGTTTGTATAGACAATCTGA AAATGGGTTCTGAACT
-11906	52 A G ATCTGAA	TGTTATAACAT CAAAGAAAGA	TTAATTTCTGC AGTTCCTCA	ACATTTGAGTAGGAATGACTTTGTGTTATAACATCAAGAAAGAATCTGAAT[A/G]TGAGGGAACCTG CAGAAATTAACCTTCAGTCTAATCTCAGAAATGCCAGAGTAAGATGAACCCCTTTACAG

VI-11909	78 A G	TTTGTGTTGGG TGGTCAAG	CTCTCTCTGAG ATTTTCTGAAT AG	GCAGTTCTCTGAAAGACAATGGATTGTGGAGCATACTGAAGACTATTCTCTAAATGGCTATTTGTGTTG GGTGGTCAAG[A/G]CTATTTCAGAAAATCTCAGAGGAGGACAAAATGATAGTGCCTGACCTGCAGCCAGCTCG GACTGGCTTGCAAGAGTC
VI-11806	60 T G	CATGAAGAGT GGGCAGTTCA	TCCTGTAAGC CAATTTTATAT ACTAATAA	AAAAATACCATTAGCATCAATTTGCCCAAGTTTGGCAGGCATGAAGAGTGGGCAGTTCA[T/G]GTT TTATTAGTATATAAAATTTGGCTTTACAGGAAGCATTATGG
VI-11946	31 C A	---	---	CCCTAGTGAATACAACCTTTTGCTCTGGAGAC[C/A]CCAGCTAGTCTAAGAAAACCTCTCTAGGCTGAG CTCTCTTGGGAATCTAAGATAAAGAACTGAGATCCTGGGAAGAGGGAA
NI-11965	65 T G	TGAAGATCAG ATCTCTGGTTT GATTT	CAGCTGTGGTG AATGTTGAT	ACAAAATTCACAAGTACAACACTGCTTATTTTCTTGCTTGAAGATCAGATCTCTGGTTATTAA[T/ G]ATCAACATTCACCACAGCTGAAGGAAATTAACCTGAACCT
NI-11027	90 T A	TGCCCTACTAC GCTTTTAAAA A	TGAGGAAATGT GTTACAGTATT TTTATT	ACCTATTTTGAACCTGCAGAAAGGGCAGGACAAAACAAATCACTTCATAGATTTTCTGGGAAATAT TGCCCTACTACGCTTTTAAAAAT[A/A]AATAAAATCTGTAAACACATTTCTCATTTCTCTTACGA ATACCTCTTTTGTGATATTGCAAAATTTCTATGGCATAACAGAGGCACCTCTCAATGCCCCTG
NI-11049	95 C T	---	---	TTCTGCTGAAGATCACAAAACAAATTTCAACCTCTGTGGTTCAAAATAATTTAAGGATCTTTGTACCTTT GTGTTTATTTCTGTTTCAACTAAGGA[C/T]AGACTTCAGAAGGCATAGCTTCCCCTTGTAACGTTTTT AAACATCTTTTTCAITTTGTAGGAAGGAACATTTTCAAAAGCCCCAA
NI-15488	69 C T	AAAGGACAG CCAGATATCA AC	TTTCCATCTTA TTTCATTTCTG TAAC	CAACATTTATCAAAACATGGTAGGGAAAAAGTTCTCACTCTGCACATATAAAAAGGACAGCCAGATATCA AC[C/T]GTTACAGAAATGAAATAAGATGGAAAAATTTTAAACAAATTG
NI-13654	49 A G	AACAGTTAAT GAAACACATC OGT	GGCTGTGAAA TGATGTGAT	TGCTCAATTTAATGTGATAATCTCCAACAGTTAATGAAAACACATCCGTA[A/G]GTATGACATCATTT CACCAGCCAGCTACTTTCATGTGGCAGAAAAGGTAACCTTTTCCCCATTTTACAGACAAAACCCAGT
NI-11070b	135 C T	---	---	ATGAGACCCCTGCTTTGAACGTTAAACGTTTGGAAATAATGAAAAGGAGCTAGGACAAATTTCTTGCTT TCAAGTAAAAATTTGTGACTGAGCAGAAAAATCAGCCAGCTATCTTGGGTGCAGAGAGGTACTCCAAGTA C[C/T]GTGGGGTTCTGATGACTTCCACGGTCACTGGGGATCCAACAGAAGGGAA
NI-11070a	110 G T T	CAGAAAATCA GCCAGCTATCT	TTGAGTACCT CTCTGCACC	ATGAGACCCCTGCTTTGAACGTTAAACGTTTGGAAATAATGAAAAGGAGCTAGGACAAATTTCTTGCTT TCAAGTAAAAATTTGTGACTGAGCAGAAAAATCAGCCAGCTATCTTGGGTGCAGAGAGGTACTCCA GTACCGTGGGGTTCTGATGACTTCCACGGTCACTGGGGATCCAACAGAAGGGAA
NI-12020	121 T C	---	---	AATCTTTTATATTTCCAGCTGTTGAGACAGTATTTTGAGGGCTGATTTACCTCTAGCGGCGAAACC AGAGCCAGCTATTAAGCAGCCAGAAAGCTACAGTAATTGAATACATGACCATT[T/C]CTCTTTTAGC ACGTTCTTTGTTCTCCTC

WI-11076b	142	G A ---	---		CATGGTTCTGCCAGCTTACAGGAAGCATGGTGGCATGGCTTATCTTTGGGAGGCCTCAGGAA ACTCTGAATTATGGCAGTAGGCAAGGGGAGCAGGCATGTACATACCCAGAGCAGGAGAGAG AAAGAGAG[G/A]AAGTGCCACACATTTTAAATGATGAGTTCTCTCAAGGAACCTCACTCACTGTCAT G
WI-11076a	106	T C AGGCA	TCCTGCTCTGG GTATGTGAC		CATGGTTCTGCCAGCTTACAGGAAGCATGGTGGCATGGCTTATCTTTGGGAGGCCTCAGGAA ACTCTGAATTATGGCAGTAGGCAAGGGGAGCAGGCAT[G/C]GTACATACCCAGAGCAGGAGAGA GAGAAAGAGAGGAAGTGCCACACATTTTAAATGATGAGTTCTCTCAAGGAACCTCACTCACTGTCAT G
WI-14263	49	T C GGCATATTCA	GGTTATTCAAA AATTAGTATGG GACA		ACCTTTAAAGTTTCTCCACCTACTCCCGCAGAAAAGGCATATTCAA[T/C]GTCCCATACTAATT TTTGAATAACCTAACTCTCCCTTTGTTTCTACTAAGAGAGGTTTCTTTTGGCTACAAGTAACA
WI-14267	28	T C ---	---		AATTATTGCTGAAATTAGGAAGGAGCAT[G/C]TGAAATGGGAAGGGGAGGTTAGAGAAGACAGAG ATTTAAAGAAAGCAAGTACCATTTCCTCAAGTATAAACTCGTA
WI-13892	50	G A TAGAAC	CTTTTCATTTT TGCTTTTAAA ATCAAG		GATTTGTTTATTTCATTCTCGCTTTTCAATTTTGCTTTTAAATAGAAC[G/A]CTTTGATTTTAGTA TATGACATCATCATGAAATTTTCTCTTACTTTGATTTAGGCTCCACCTCAGTAGTTTGACAA AGGTAGAATGAGTTCA
WI-15288	108	C G TCCCTCTCTC	CATGAGAGGA AAAAGCTTCTT TCCCTTGGA		ACCTCTTTCTGATGACACTGTACCTGTAGGGGTCTAGAGAGAAAGAGTAGTAGACTCCTACTTTGC TACAAATTCAGGATGCAGGCGATGAGAGGATCCCTCTCTC[G/C]GTCCAAAGGAAAGAGCTTTTGGC
WI-3951b	88	G C ---	---		AATAATGGAAGAGGAGTGAACAAAGTAATGAACAAA[C/T]AGACCCAGATCAGAGGAAGAG ATGGCTTTCTTGTTAATTCTGGAGCAGATTCAAGCAGCAAAATATTTACTGAACACTTGCTATGTGCTG G
VI-3951a	39	C T CAAAA	TTCCTCTGATC TGGGGTCT		AATAATGGAAGAGGAGTGAACAAAGTAATGAACAAA[C/T]AGACCCAGATCAGAGGAAGAG ATGGCTTTCTTGTTAATTCTGGAGCAGATTCAAGCAGCAAAATATTTACTGAACACTTGCTATGTGCTG G
II-13264	25	G A TTGCCCAT	GGAGGGAGAG ACGGGAATA		GAGACCAAAAAGGCTCTTGCCCAT[G/A]TATCCCGTCTCTCCCTCCTGACTGACCCAGTGTCTT ACAATGAACATCCCTCAGCCCCCATGGCATGGTGCATCCCTCTCTTGGGATCTGTGAATATAACCA ACTGTCTTGCTAATGGC
II-13960	39	A C TGATAGA	CATGAAAGGA CAAAATTTGCAT C		TTATTGTGATTAGCAAAAGGAAGTTAAATACTGATAGA[A/C]GATGCAAAATTTGTCCCTTTCATGCA TTTGTGGAGCAAGTACTAACTTGTTCACTGTCTATTCCTCACAAGGAGTTGAGCCCTAGATGAC
I-15843	62	C T CAG	CTCTGGCTCAG ACTTGCTCT		AACTCTTATTGTTTAGCTAGCCCCAGTGACTTTATGCACTTTATAACCAAGAGCCTTCAG[C/T]AG AGCAAGCTGAGCCAGAGGTTTATCACACTTTGTCCCTCAGGGTCCACCAGGAACCCAGGCTTGGCT

VI-13983	52 G A	TCTCTCCACT CCITTAACCT	CAATACTCTCT TAGCCCAGTGG	TTGTGTATCTGATTTCCGAAACATAGAAATCTCTCTCCACTCCTTAAACCTTG/AJCCACTGGGCTAA GAGAGTATTGTACAGAAATATGCACTGACTGACTTAACAGAATTAGAACATCCAGGCACTCACTGAGA
VI-13850	51 A G TT	AATCTCAGGG TCACAGCTTTA	TGTTCCCTGAC AATGTTTGTA	CATGAATCTCAGGGTCACAGCTTTATTTTATAGATTTTAAACACAGCCATTA/GJTTACAAACATTGT CAGGGAACATTTACAAGAAATAAATAAGATGGACTTCGAGGTGTAAGAAAGATTACACTTCA
VI-15295	27 G C A	TGTCAGTTTGA ATGTATTCCTG	TGAATAGTTGG CAAAGGAAAA	AGATGTCAGTTTGAATGTATTCCTGATG/CJTTTCCCTTGCCAACTATTCAATTATTGACCATCTTTTC CTCGTCAAGTGACCTGCCATCATCAAGAAAGGCCCGGAAATATGAGTGAGACTCA
VI-14284	55 C T ---	---	---	ATTTCAACAAATCCAGAACAGGTTCTCACACTTTGAGCCCTTGTAGTGCAAAACA/CJTTATGCCAT GCGGAAATAAAATGCTTATCCAGTGAGCGCTCCCTGATGCAATTGA
VI-14288	85 G C	CCGCTGCTATT CCAGAT	GGTCTCTTCC ACCAAATCTT	ATGACCAGACCAAGGCCCTGTTCTATATGAAGACAACAGGTGGCCATACCTGGTGAGGGGATA CCGCTGCTATTCAGATG/CJAAAGATTTGGTGAAGGAGACCATGACAGATGACAAACGG
VI-13522	33 C T	TGATGTAGTTA CCCCACTAAT ACAAC	CATAATATTTG AAGTCAGTGGT TCTC	TTTATTTGTAGTAGTTACCCCACTAATACAAC/CJTGAGAACCACTGACTTCAATATTATGAGAG AAAAATTACTCCAGGGAATTTTGCAGAGAAGATAATA
VI-13529	42 T C TTACCA	CACAAACATT TATTGAACAG	TCTATACACTT CTCACTCTCTT GCTT	AAATATGATTCCATTCCACAAACATTTATTGAACAGTTACCA/T/CJAAAGCAAGAGAGTGAGAAGTGT ATAGAGGTGATTTAAGAGTGGTCCCTGCTCGAGGGTTTATAGTCTAACAGGGGAACACCTCTC A
VI-13859	84 G A ---	---	---	TTATTTGTCAGAAATTTCCAGAAATCAGAGTCTCTACTGGGCAAGTAGAAAAATAGAAAAAGTTTACTAC TTTGAAAAGGAAACTATG/AJACAAACAAGTATATATTCAGGAAAGGACTCCTAGAACTTGAGCA ACA
VI-13536	29 T C ---	---	---	TGAAAGGATACAGAAAAAATCAGCGAAGT/CJGAAAAGGTGGATAGCGTGGAGTAGAGGAGAAAT TAAGCACCAAGCTTCCAGTTGTCTCTCCAGTGCCATTACATGGAGTACACTTAATTTTCTCAGCA
VI-13373	52 G A ---	---	---	TTTATTGTTTGGTAGAAAACAGGCTCTTTAACACTGAATAAACATCTCAC/G/AJAACCTGTCGCTC CTAGATTACAAAAGTCAAAACCAATTTCCTTTGACGCCGGCCCTTGAATCTGACATTCAGATCAAGTCAC CGTAATAGAAACCCAGAGCT
477b	61 A G ---	---	---	TGGTTTTTAATACCTCTTGTGGATAAAAAGGACATTTTTCATTAGCTTGCTTCAAA/AJGAC AGAGAAATAAGATAAATTACCTTAAAGAAATTAATAGAAAATTAAGGGAACATGTACCAAGGTGG TTTTAGACTCTCCTCAGTT
477a	32 A G AAGG	TTAATACCTCT TGTTGGATAA	GAAGACAAGC TAATGAAGAAA CAATG	TGGTTTTTAATACCTCTTGTGGATAAAAAGG/AJG/CATTGTTTTTCATTAGCTTGCTTCAAAAGAC AGAGAAATAAGATAAATTACCTTAAAGAAATTAATAGAAAATTAAGGGAACATGTACCAAGGTGG TTTTAGACTCTCCTCAGTT

11-14297	86 A T G	AATGTTGGGT AC TTTTCCAA	TGTGCACATTC AGAAACATTTT	CTGAC TTTA TTTAGCATGCAATGCAATTTATCTGGCAATAAAATTAATATGTGCAGTTATAAAAAAT GTTGGGTACTTTTCCAAG[A/T]JAAATGTTTCTGAAATGTGCACACTAGAATATATGCAGAAATCCTTTT AAACAGTCGACT
11-12229	89 T G AAA	CATGTGCACA AAAAGAGTAA	ACATGTGAATTT GTCCCAAAAA	TCCATGTAAATATTCTCAACAGAGAACACTATCTTTAAATGAAGGATTTTACCATTAAAGAAATCAACA TGTGCACAAAAAGAGTAAAAATTT[G]ACCAAAAAATTAAGATTTTTTGGGACAATTCACATGTTTC AAAAAT
11-13582	43 C A	TGCAATCTAG A AGACTGGGA	TCTGCGCAGTT AGATTCCA	AAGGCTGCCCTTACTGGACCAATGCAATCTAGAGACTGGGGA[C/A]TGGAAATCTAACTGCGCAGAG AAATCAAGACCGATGGTGAAATCTGGGCGAGCTTCAAAATTTCTGCCCTOCTAAAAACATTTTCAC CCAAATTTTTCATTATTGCC
11-13857	28 A G ---	---	---	TCTGAGTTGATAAAATGCTTTTCTGAAC[A/G]TACATTTTAGGTATCTGGCACAATTAACCAAATGT CTGCCCATTTTGTGTAGCTTTTCATACAGTACAGATTCATTGATGTCGCTCCCACATCTG
11-15809	77 T G	TGGTTTCTGT TGTAATGCC	TAAGTAGCTA ATTCAATGTTT GTAA	GTTTAAAGTGCAGAGATGTGAATGGTTTACAAATCTGAAGCTGAAGTCAATCTTTGGTTTCTGTT GTAAATGCC[T/G]TTTACAAACATTGAATTAGTACCCTTAAGTATTGAAGAGCTTCCATT
11-15892	123 A T ---	---	---	TAAATCAGTCTGTGCAAGAAAGAACAGGACTTGATCAAGCTTCCAGCCCTCACCACCTCTATCAGCA TAGCAATTTTAAGGATCAGAGCTTTGTTTACATTTGTCTAAACCAAGAGAAAGAA[A/T]JGGAATCA ACTCCACAGATCAACATGT
801b	81 T G AA	CATACTCCACT CTAGCTGCAGT	AGAAGAGTGG ATGGGATGC	TC TTTTATCCAAAGATGGGAAGCG[A/T]CATTTTTCATTGGCTTGAATGAGAAAGCTTCATACTCCACTCTA GCTGCAGTAATAC[T/G]GCATCCCATCCACTCTTCTCTCTTTTGTACTGAAACTCTTCAAGAACT GCTGAATGTCTCTCTC
301a	24 G A	TTTATCCAAAG AATGGGAAGC	TCATTCAAGCC AATGAAAATG	TC TTTTATCCAAAGATGGGAAGCG[A/T]CATTTTTCATTGGCTTGAATGAGAAAGCTTCATACTCCACT CTAGCTGCAGTAATCTGCATCCCATCCACTCTTCTCTCTTTTGTACTGAAACTCTTCAAGAACT GCTGAATGTCTCTCTC
13763	59 T C	GGCTGGACACT GCAGTGAT	CCACACCTGC CCCT	GCTCGTAATGAGACAGAACGCTACAATCTGTTCAACACTGGGCTGGACACTGCAGTGATTT[C]JAGGG GCAGGTGTGGGCAGGGTGGGGCTCTGAGCCGAGGACAAATGTCCATGGCAGAGCTTCCAGAA TTTTTTTTTGGTGAGTGTGTTCTTCAATAAAGAGCAGAAAGAAAACCTT[A]JAGACAAAAGATGTT CTTACACACTGAGCTTTACACAGTCAACCCCAACATTTGATATTTTGTCTTTTCCCGAGGGCAAAAAGA GAGTCTTCCAGAAACCTC
13578	48 T A AACC	TCAATAAAGA GCAGAAAGAA	CAGTGTGTAAG AACATCTTTTT GTC	TCCAAGGAAAAAGAAAGAAACCAATCAGTGAGAAAACCTCAAGAAATGGATGGCTGAGGGAG[G/A] GAACAGAGGAAGCGCACTGGGGCTGGGACTGAATATGGACAGTGGATGGTAGGTCCTCCTCTCTT GAGGTCCCT
3789	62 G A	TTGGATGGCTG AGGGAG	CAGTGCCTTC CTCTGTTT	GAACAGAGGAAGCGCACTGGGGCTGGGACTGAATATGGACAGTGGATGGTAGGTCCTCCTCTCTT GAGGTCCCT
3594	66 G A AGC	TTTAAACACA GATCACAAA	CCTTTGGCCA GTACTTTTT	AATAACAAGTTTAAAGTTCGAGCTGCAATGTTGGCAATGCAGGTTTTTAAACAGATCACAAGAAAGC[G/A]TGACAAAAAAGTACTGGCGCAAGGACAAAATAATGCTAAGAAATTAGGCCAAACACAGCTGC

NI-15625	40	CT	---	---	GTTCCTCCACCTACTCCCGCAGAAAAAGGCATATTCAA[C/T]TGTCCTACTAATTTTGAATAA CCTAACTCTCCCTTTGTTCTACTAAGAGAGGTTTCTTTTGCTACAAGTAAACA
NI-13367	84	C	G	A	GTCTCAGTTCTTGCTAGGCTGTAATTTTCAGTTTAAACAAGTTCTTATGTGATTTGTGGCCACACT GAAGACTCACCAGAA[C/G]AGGGTGGGTGGGAATCTTAATCAATATTTGTGGAATTTACCCGAT GAAATCCAGTTATTCCT
NI-13600	26	G	T	A	CTCACTTTAATGAGCCCAAGCATCCAT[G/T]CCATCATCTAGTAACAAATTTTCAATATGCACATTATAT TATACTGGAACAAGAAATACGGATTGTGTAGGGAAGAGCATAGAGGCCACCATCAGCAACCCCTCT TGATTCCTTCTCTACCC
WI-13602	89	G	T	A	GATAGGAAGAAGAAATGAAGTCAATAGTCTTTAGCAAGCCAACTAGCTCAAGGAATAGACAGCCC CTTCCATTCTGGAGACAACACA[G/T]AAATCTATTAATATTAATATTGTCATGAGGTATGCACCT GCCC
WI-13650	76	A	T	A	GCATTAACATTTAAAAATTTCTGAGGGATATTGATGAGAACTATGATGAAAGATTCAACAATTTTCAG TTTTAAAC[A/T]AAAAAACTACTCTCATATCCTAGCCTGATGACITTAAGTTACCGG
VI-14319	83	C	T	A	TGTTTGTATTGAAGAAACATCTCTAAAAATACCATCTGAGTGCAAGATAAAAAAGGAATAGCAATT CAAGGCACAAAGCTAAG[C/T]ACATGCAACAATATAGATGATTTGGGGTGGGACAGTACAGAATT
I-13528	80	A	G	A	ATTGGATACATGCTTTTAAAAATGGTAGCTTTTAAACTGTAATCAATACATTTTGCATTTTCTCTAAAA AAAGAAGACATTT[A/G]TTTCAGAGAAAACTGTGGTATCATGCAGGAAAAAGCAGAAAAAATT ACTTAACTGGCTTATCTTCACGGTAATCTATTTCTGTTTCCAGTGAAGTTTCATCTTCTCACACT CTCTTCAAACTCGAATACTTTTTC[A/T]GAGATGCTAGTAGTACCCACTGCAACATCTCTCAA
I-1909b	80	G	A	C	ACTTAACTGGCTTATCTTCACGGTAATCTCTGTTATTTCCAGTGAAGTTTCATCTTCTCACACT CTCTTCAAACTC[G/A]AATACTTTTCAGAGATGCTAGTAGTACCCACTGCAACATCTCTCAA
323b	86	C	A	---	TTTTATTGAATCCAAATGTAGCAAAATCATTAAAACAAATTATAAAGGGACAGAAAAATTAAG AATCAACATCATCTGGAC[C/A]ATGGGAACCTTGAAAAAGGCATGGCAGTGGAGACCAGTAACATA
323a	78	T	C	A	TTTTATTGAATCCAAATGTAGCAAAATCATTAAAACAAATTATAAAGGGACAGAAAAATTAAG AATCAACATCAT[C/T]CTGGACCATGGAACTTGAAAAAGGCATGGCAGTGGAGACCAGTAACATA
I-189b	104	G	A	A	AAAATTGACAAATCAACTAGCTTGTCTTTTGTGCTTTTGGAAAGACTACCATTAATTCAAAATTTATATGT AATACACTCATCCAGATAATGAACATCTCGGAAA[G/A]AAGTGTGGGAATCACCTCATCTGTGC

NI-15389a	33 GA TC	AATCAACTAG CTTGCTTTTGG	TTTGAATAATG GTAGTCTTCCA AA	AAAAATTGACAAATCAACTAGCTTGCTTTTGTCTG/GA/JTTTGGAAAGACTACCATTTATTCAAAATTTATTT ATGTAATACACTCATCCAGATAATGAACATCTGCGAAAGAAAGTGTGGAAATCACCTCATCTGTGTC TGTAATCTGCTTACAGTCCCTTTGCAAGAGACACATATGTTTTGTCATAAAGATATAAATGCTTCAT TTTAAACTAATTTAGTGTCTT/CJT/TAATATATGAACCTTTTGGTGAATTATGAACCTGTACCAAAC C
NI-15747	88 T C	TGCTTCATTTT AAACTAATTT C	CATAATTCACC AAAGTTTCATA TAATTT	AAGAAAAGCACATACATTTCCAGAAATTTTGGAAAAGTTCACTCTGCAGCAGCTGAATGGCAGATGGT CTCTGCGATGAGTTCCTCTCGTTAAGTCTGGATATACCTTGGCTTGCAC/CJT/GGACACCTTTTACG GAGGGATTCCGGACAAC
WI-13752b	117 CT ---	---	---	AAGAAAAGCACATACATTTCCAGAAATTTTGGAAAAGTTCACTCTGCAGCAGCTGAATGGCAGATGGT CTCTGCGATGAGTTCCTCTCGTTAAGTCTGGATATACCTTGGCTTGCAC/CJT/GGACACCTTTTACG GAGGGATTCCGGACAAC
WI-13752a	106 T C	CCTTCTCGTTA CAGTGTGGA	CCCTCCGTAAA AGGTGTCC	AAGAAAAGCACATACATTTCCAGAAATTTTGGAAAAGTTCACTCTGCAGCAGCTGAATGGCAGATGGT CTCTGCGATGAGTTCCTCTCGTTAAGTCTGGATATACCTTGGCTTGCAC/CJT/GGACACCTTTTACG GAGGGATTCCGGACAAC
NI-14339	102 T G	CCCAATCAAA CAGTACATGA TTAC	TCCAGATTCT GGAAACCG	AATCATTTAATGAATGTTCCAAACACACCCCTTCACTGGGCTACAGGTAATTTCACTGGGATGGAAG CAGATGAACCAATCAATCAACAGTACATGATTAC/T/GJ/CGGTTTCCAGAAATCTGGATAC TGATGGATGGATGAGGCCACCTGTGTTCAACAAAACACGTAATGGAACCTTCATGCAGCTTTAGAT TTCCCTTGGCCAGCTAGGAGCTTGTGTATGGTGTGAACAAAACCTGAA/CJT/GCTGTCTTATCTTTC CTGATTCT
NI-14061	68 CT ---	---	---	CCTTGACTATATTGTTTTTCCAAAATAGGACTATGTGTAGAGAGAGCCCCCGTACATACCTTAT IC/JT/JAACCATTTTCATCCACCATTTGTAAAAATCTCATCTCTGGTCTGGATACCTCAAAAACAGAT
NI-15719	69 A C	ACCCTTTCATC CATTACGC	TGACTCTGGC AAGAGTTTAA ATT	TTACAGTTGGATTAACACTACCACACTGAATATACCTGAATTAACCTATTCAACCCCTTTCATCCATTACG C/A/C/JAATTTAAACTCTTGCCAAAGTATCATGAACCTTACGAAGAGGAGATAAGAGATCTGATC
-13810	106 T C	CTCTAAATCG ATACATCCAA AACTT	GAACTGATGCT TGCTGCTAACT	TAATCCATCAATCTAAATCAACACATACATAGATCAAAACAGAGTACCACAGTATGCTTTATTTTGCA GGTATTAAITGGTCTCTAAATCGATACATCCAAAACCTT/C/JAGTTAGCAGCAAGCATCAGTTCTTC
'36a	27 GT CACA	ATTTTATTAC ATTAAACTTG	GTTCTTTGATA TGTGGCTTAGT TTT	GGATTTTATTACATTAACTTGACAC/G/JTAGCAAAAATCAAAACATAAAAACCTAAGCCACA TATCAAGAACAATATACATAGAGATTTGAATTTCTCAATAGCATTTGGAAGGTTATTTCCATAAATA TCAAACTGCACACTATAAAGTGTCTTAAATGCAGCAGCAGGAGATGTGAAGACACAAATGAAC AAGTGC/G/JTAGTGACACATAGCTGTCAACACACAGT
'85d	72 GA ---	---	---	TCAAACTGCACACTATAAAGTGTCTTAAATGCAGCAGCAGGAGATGTGAAGACACAAATGAAC TCAAACTGCACACTATAAAGTGTCTTAAATGCAGCAGCAGGAGATGTGAAGACACAAATGAAC AACAAAGTGGTAGTGACACATAGCTGTCAACACAGT
85c	56 A/C ---	---	---	AACAAAGTGGTAGTGACACATAGCTGTCAACACAGT

II-3785b	40 C G ---	---	---	TCAAACTGCACACTATAAAAGTGCTTTAAATGCAGCAG[C/G]AGGAGATGTGAAGACACAAATG AACAGTGCGTAGTGACACATAGCTGTCAACACACAGTG
II-3785a	27 T C TGCTT	GGATTTTACAT	TGTTGTGACAG CTATGTGTGAC T	TCAAACTGCACACTATAAAAGTGCTTT[C/JAAATGCAGCAGCAGGAGATGTGAAGACACAAATG AACAAAGTGCGTAGTGACACATAGCTGTCAACACACAGTG
VI-13793	88 C G ATAGG	TCAGCCTAGAT	GGCAGGAGGA TTTGTTACT	AGAAACCAAGTATATCATAGGCAAAATAAAAATAGTTTTTACCCCATTTGATACAAACATAAGGGATTT TACATTCAGCCTAGATATAGG[C/G]AGTAACAAATCCTCTGCCATAAAATCTATGACTTG
VI-13794	52 A G TTCTTTCTC	TTCTCACCCCT	AGAATGGGCTC TTAACCTTGTA	TAGTCTCCTACAATTCCTTCAATCCAATTTCTTCTCACCCTTTTCTTCTC[C/G]TACAAGGTTAAGA GCCCATTTCTTCAACAAACAAACAAACATAGAGCAAT
VI-15729	35 A G GTGTAGACTGC	CTTTGAACCAT	CTCAGCTTCTT TCTAAAGTGCC	TCATTTAAGTGCACTTTGAACCATGTGTAGACTGC[A/G]GGCACTTTAGAAAGAGCTGAGACTGAA AAGTCTGTCTTGACTTCCAAAGGAAGGTAAGTCCCTGTTTGAGCCCGGGGCTGCTCATTTGTTA GTCTTTTGACAAAGTCTCCCAACTGGTTTGGAGTTTCCCTTCTGAGGTTTTTACCCCTATTTCTTC[C/G] JTAGACCCCTGGGGAGAAACACATGTGTAAGTGCTCAGGACATGAGGCAGGCGCTTCACAAGAT GCTGGCTAAGGGCTTC
II-13424	66 G A C	TGAGGTTTTTC ACCCTATTCTT	TTTTTCTCCCC AGGGTCTA	AACTGTCTTATAAAAGGTGAGAGCAATTT[C/JGAGATCCAGATTCAGCTTGCTCATAAAAGAT TCAACTTCAAGTAGCACAATTTCTGTCTGCTTTTAACTCTGAACATCTTGAAGCAGCA TGCCATGTTCTTTCACTCATCA[C/G]CCTCTCTGATTTTGATTCCTTCTGCTCTGTAATTTTCTTC TTCCCTTTTTAGGGCCTAGTCTGTTTAGAAATCTGGTTTTTGAGAGTAGTGAGCCCTTTTACTTTTTT CTGACTGCCTAAT
I-14065	29 T C AATT	TCTTATAAAA GGTCAGAGGC	CAAGCTGAATC TGGGATCTC	TCACACAAGGCATTTGGAAATGTCACCTTACACATGGTGAGCACATATGGGTGCC[C/JGCCCGAG ACAGCAGGATAAGTTTCACAAAACCTGACCAGGCAGGTAGAAAGCAAGGCATGGTTACAGGATG CAAATGTTTTATGAAGAGACTCCGAACAAATAAAGGCTTTCAAAAAGGGGGTAAAGGGTGAGG AAAGCATGTGAGAGAAACTGTAAACCCTGTAAACAA[C/J]ACTAATGGGTCTTTGAACAAATAGTTT TGA
-13446	22 G C TCACTCATCA	GCCATGTTCTT G	AAATCAGAAG G	CAAATGTTTTATGAAGAGACTCCGAACAAATAAAGGCTTTCAAAAAGGGGGTAAAGGGTGAGG AAAGCATGTGAGAGAAACTGTAAACCCTGTAAACAA[C/J]ACTAATGGGTCTTTGAACAAATAGTTT TGA
-13725	56 A C TGGGTGCC	TGAGCACATA TGGGTGCC	CCTGCTGTCTC GGGC	CAAATGTTTTATGAAGAGACTCCGAACAAATAAAGGCTTTCAAAAAGGGGGTAAAGGGTGAGG AAAGCATGTGAGAGAAACTGTAAACCCTGTAAACAA[C/J]ACTAATGGGTCTTTGAACAAATAGTTT TGA
'02d	107 T C ---	---	---	CAAATGTTTTATGAAGAGACTCCGAACAAATAAAGGCTTTCAAAAAGGGGGTAAAGGGTGAGG AAAGCATGTGAGAGAAACTGTAAAC[C/J]CTGTAAACAATACTAATGGGTCTTTGAACAAATAGTTT TGA
02c	101 T C ---	---	---	CAAATGTTTTATGAAGAGACTCCGAACAAATAAAGGCTTTCAAAAAGGGGGTAAAGGGTGAGG AAAGCATGTGAGAGAAACTGTAAAC[C/J]CTGTAAACAATACTAATGGGTCTTTGAACAAATAGTTT TGA
32b	90 C T ---	---	---	CAAATGTTTTATGAAGAGACTCCGAACAAATAAAGGCTTTCAAAAAGGGGGTAAAGGGTGAGG AAAGCATGTGAGAGAAACTGTAAAC[C/J]CTGTAAACAATACTAATGGGTCTTTGAACAAATAGTTT TGA

WI-14379	102	C T	TCTATTAACA GGGTTATGTCA CACC	ATCATCTGTTT TGAGGTTGACA	TTATGCTGTTGTTTCTACTGGTGGTCTGGCTCACTAATATCAATCCTAGTATGATTTTCTTT TACTTGTGCTATTACAGGGTTATGTACACC[C/T]TGTCACCTCAAAACAGATGATACT TAAATAAAACAAAGCAGAAA[C/A]CCACCATTAACAAGAGGACACTGCAGAGGCTTATGTACA ACAGTGTCCCGGAGGCTGGCGCAGGACTGCCACTCACTCCAAAATTCTTTGGAGCAGAG
WI-14102	22	C A	---	---	ACCGCAGAGCTGCTGTATTTAA[A/G]ACAAGCGTCTGGATCTCTGCAGGGGCTGGGACCAGCTGC AGTGGGGCTCCGGCACTGCTCTCTCCAGGACTCTTCCACCACCCC TGAACCTGAAACGTATTTCTCTCA[A/C]ACACCGTAGAACTTAAAGGCCGCAAAAGACTCACACCC ACCACCTAGCGGCGAAAAGGAAGTTTCAGTGATACAAGATGTCCTGCCATCACACCTGAAGGAT GGT
WI-15937	24	A G A	CTGTATTAA A	GCAGAGATCCA GACGCTTGT	ATGTTTATGATCAATTCCAAACATACAGTACAGGGAAGGTGAAATGAGTAAGAAAAAATCAT ATTTAAGTCCCCGTTAACACTAAGCC[A/G]TATTATTCAAAATGTGTTTCAAAATACTCAGCCAGAT CACCAAAGCTCAGTCACCTAC
WI-15944	24	A C A	AAACTGAAAC GTATTTCTCTC	GGCCTTTAAGT TTCTACGGTG	GACAAAGAGGCGAGTTTCTGTAGTTCAGCAGGGCCAGCAGGTTATCAGAACGGGTTGGTTGACCT GCATAGATTTTTCAGCAGT[C/T]GTGGCCATGCCATTCCTGTAAAGTGAAATTAATGAACA GTTATTTTCTCACAGTCTGGAGGTTAGAACTGAGATGAGGATATCACCAGCATGGTTAGGTTCT GGTGAGGACTCTCTGGCTTACAGCTGGCTGCTTCTCACCATGTCTTCACAT[G/A]GCCCCAAAGAGAC AGAACAAAGCTCTCTGGT
WI-14124	92	A G	---	---	TTGTTGTTGGCACCAGAAAAGCT[C/T]ATGTTCTATGTTATGTCACTGTACATACTGTAAACAAGACT GCATTAAATATTGTTTCTTATGATTTGTTTCAATG
WI-14125	88	C T	GGTTGACCTG CATAGATTTT	GGATGGCATG GCAC	GGCAGGTTTATTCATAATTTTCAAACCTGGAGCAACCAAGATGTCTTCAGTAGTAGTATATTCA GACAATC[G/A]AATATTACTTAGCCTAAAGAAATGAGCTATCAAGTCATGAAAGACATGCAGG AACCTTAAATGGATATTACT
WI-14136	120	G A	GCTTCTCACC ATGCTTTCACA	CTTGTCTGTC TCTTTGGGC	TTTTTAAGAGTGCTCTCACATCATTTATATTGTTATGCACACAACTTTTAACTC[C/T]GTCAA AAACAACAAGAACAGATGAATAAGGAAGCCAGTGCTTTTGAGATAGAAGCCTTCTTCAGAATCA CCTCCC
WI-14138	23	C T	TGTTGGCACCA GAAAAGCT	GTGACATAACA TAGAACA	TTTTTAAGAGTGCTCTCACATCATTTATATTGTTATGCACACAACTTTTAACTC[C/T]GTCAA AAACAACAAGAACAGATGAATAAGGAAGCCAGTGCTTTTGAGATAGAAGCCTTCTTCAGAATCA CCTCCC
WI-13551	74	G A	TCTTCAGTAG TAGTATATTCA GACAATC	GCTCATTTCTT TTAGTGCTAAG TAATATT	TTTTTAAGAGTGCTCTCACATCATTTATATTGTTATGCACACAACTTTTAACTC[C/T]GTCAA AAACAACAAGAACAGATGAATAAGGAAGCCAGTGCTTTTGAGATAGAAGCCTTCTTCAGAATCA CCTCCC
WI-13551	59	C T	---	---	TTTTTAAGAGTGCTCTCACATCATTTATATTGTTATGCACACAACTTTTAACTC[C/T]GTCAA AAACAACAAGAACAGATGAATAAGGAAGCCAGTGCTTTTGAGATAGAAGCCTTCTTCAGAATCA CCTCCC
WI-13551	26	T G A T	TTTAAGAGTG TCCTTCACATC	TCATCTGTTCT TGTTGTTTGG	TTTTTAAGAGTGCTCTCACATCATTTATATTGTTATGCACACAACTTTTAACTC[C/T]GTCAA AAACAACAAGAACAGATGAATAAGGAAGCCAGTGCTTTTGAGATAGAAGCCTTCTTCAGAATCA CCTCCC

VI-14631	82 G A ---	---	TGAATTCATGGACAGTTTGCCTCTGTTTAGTGAAACCCCTCACAAGCACTCTGCATAGTCCGCTTT CTGCTCTCTTTAAC[G/A]TGCTGTTCCCTCTGCCAAACTTTTAGGATTGGCCTCCTCAGGGCCTT GTCCTGA
VI-6053	24 A G ---	---	ATCACCACCGTGTCTAAGAACAC[G/A]TCTTCATGTCCAACTCATATCCCCGGGACTTTGTCAACTG CAGTACACTTCTGCATTGAACCTGGCTTCTCGGAGGAAGCCTCCTAGAGGCCAGGTAAGGGGTGC
VI-15964	99 T A CTGGAGGTA	GACTTCTCCAC CCTCTTGC	AGCAGTGAGGGTATATCTGGCTGGCCAGTGTGAACACGGAG CAGAAACCTCTTCTGTGTATTAAAGCTGATGCTAAAGTCAGAGCAGTCCAAAGGAGGAGGCTGCCTT GGGAGGTAGTAAGCTCTCTGTCCCTGGAGGTAT[G/A]GCAAGAGGGTGGAGAAGTCTTGGCAAG
VI-12075	103 G A GGCAC	CCCCCTTCTTC TCTTCTTC	CAGCTAAAGGATCACTGCAGCTAAATACAGATAGAGAAGCAACAAGCCAGGCAATACCCATCAG AGACAGTGACAAGAGCAGCTGGGGCACGGGGAGGC[G/A]GAAGGAAGAGAAAGAGGGGAGGAG OCT
II-12179	96 G A TGGAGGTCA	TCGAATGACCC TGATAGTC	TAATTTAAACACGCCCTTCCACATAGTGGTGAGGCATCTGCACATTTTCTAGAAGGACATGA ATAGTGATGTGGAGGTACGGTGGAGGTCA[G/A]GCATCTACAGGTCATTCGAGGAGGAACAG
I-14651	49 C G ATTGT	CAAGAATCAT TCTCATTTAA CTTATT	CACAAATAGTGAATATCTGAGCAAGAATCATTTCTCATTTAAATTTGTC[G/A]AAATAAGTCAGAA AAGATCAATATCTCCCTGCTTCAAAATGACACTCCCAATTTTACAGGTAACCACTGTTA
-14666	105 T A ---	---	AATGTGGACTTTCAAACAAGGGTTTAAACTAATCTAATACTAATCTAACAACATTCACAGCATTCAGAGCAT TATAACAAGAAATTTTACAGGCAGCTAATGTATTAAAT[G/A]AACCATGAAAAGAAAACCTTG
13473	31 C T ---	---	ATCTAGATGTCAGCAATGGGCTGAGACTGTC[G/A]TGCTGGTAGATGCAGTGTGTATGTTTCTAC TCTATTACAAAATTAACAGAAATATGGCTCGCTTTGTGCAATGTTTATATCACAGTC
13967	103 A C AAATAAAA	TTGTGTTTCA TCTCTTAAAG TG	AATTAATAGCAGCTCTGTGTGTGATTTTAAAGAACAGATAAAATATGTCATTCAGCAGTCATTT AAAAATAAAAGACTACAGATACAGGAAATAAAA[A/C]ACATTTTAGGAGATGAAAACACAAA
4408	60 T A G	TTAATTGTGTA AAACTCATTTG TTACTTT	TTAATATTTACGCAAGTTATTGCAACAGGTTGAAATGCAGACACACTATTACAGGCTG[T/A]AAA GTAACAAATGAGTTTACACAATTAATAATTAACACACATACTTATGGGATTTGTTGAATGA
3683	47 C G ---	---	TTTTGTGTTAAGAACAGCATTTTGAATAAACCCTATCTGCCCATG[C/G]TTTACAGCCTTTTAAAT TTGTAATATTATATAGTCGTTTATGGTACATATTGATTGTC
b	63 C T CGTCT	CATTGAGATAA AGCACACTTAT CAC	TTAGAAAAGTATAAAGCAACACAACCTTTTGGGAAAGCACCATGGCACGTCCTTTGTGCTA[C/T] GTGATAAGTGTGCTTTATCTCAATGAAGCAACCCCA
35	22 G A ---	---	ACATGGCAGATACAGAGCTGTC[G/A]TCTTGAAGACCACCACTGACCAGGAAATGCCACTTTTACAA AATCATCCCCCTTTTCATGATTGGAACAGTTTCTGACCGTCTGGGAGCGTTGAAGGGTGACCAGC ACATTTGCACATGCAAAA

WI-16002	59 T C	GATAACATAA AATGATCATG AGAATTTT	GCCATCTCCTC TTTGACTTTT	CCAACATTTTAAACCTATGACTGGTCATTGATAACATAAAATGATCATGAGAAATTTCA[T/C]GTTA AAAGTCAAAGAGGAGATGGCTAATGTCATGCTGGGCT GTGGAAATTTTAAAGCCATCAAAATTTCTTCACACTCAATACTGTTGAACAACAAGATAACACAT CTTCTTGCTCATCCCACTTGAAGTCAAGTCATCA[A/G]TTTAGGCACAAAGGTTTAGTTTTCTCGG GAAATCAAGTTTTAAACCA TGAGTTACAACAATGAGCAACAAGTTAGAAAAATGGTTTTATTCAAACCTCCTAGCGTTTGACTT GTGCGG[T/C]GTACTCAATGGGGCAGTGGGACGGGAGGATTGCAACCAGAGTTTCATACTG CAA TCCCTAACATTTATTCAGGTGCTGACTAGGAGGTTGAGGTGTAGATAT[T/C]TTCCTCTCTCTC GTGGAGCCTTACTGAAGACAGGATCGCCGTTCTTGTTATCAGCTGAGAAAGGCGCTCGCCATC TTAAAGACCTGCCCTCC TTCCATTCAATTATGCTTGGCTTTACCAATTTTTATAGCTATTGGGAGGCAAGAAAGGAAATTTTGGC CCAGAAACCATGAGATTTGGTCAGAAAAAGGCACACGGGAA[G/A]GGTCAAGGCAGGCTGAG AGTCACATTTCCAGACCTC ACACAATATAATTCATTT[C/C]GAGTGATTAAAAACCTATTTGTTGTTAGAACCAACAAAACTAC AAGAAACATTTTCAAAACCTTTTTTTTCAGGCTGA CTTTGAAACACTTTAAGCAACAGTTAAAAAGTACCCACCACACTACCCTGTT/AJAAAACTTTAAC ATTGTGATGCCCTGTCATCAATTTTAGAAAAACAAGAAAAACAACACTGAAGGCCCATGTA AGTTAAAAAAATCGAGTCAGCATTTATTTATJAAAAACTGGACACGCTTCTATATTGCAAGCTCAT TCAAATGCATTTATTTTGTATCCCAAGCCCCGTGAAACATGAAAAAATATTTACTAAAGGAATGTTG ATTACCAGCTACGACTTTC CCGTGTTTCATTGAAGGCTATTAGGCAAACTGAACATTTAAATGTCATCCATGTGAGGGCTCTAGATC ATG[T/T]TAGGTGATTGATACAAATACGATCCATAA CCGTGTTTCATTGAAGGCTATTAGGCAAACTGAACATTTAAATGTCATCCATGTGAGGGCTCTAGATC AT[G/T]TAGGTGATTGATACAAATACGATCCATAA CCGTGTTTCATTGAAGGCTATTAGGCAAACTGAACATTTAAATGTCATCCATGTGAGGGCTCTAGATC ATCATGGTAGGTGATTGATACAAATACGATCCATAA CACCTAAATCATCTAGAAACTGGGGATACAGCAGTAAAGAAATACAAAAATCCTGC[C/T]CTTATA GAGCATACATCTAGAGGTGGGAAAGAGGCAATAAATA
WI-15361b	101 A G A	CCACTTGAAC TCAAGTCATC	AACTAAAC CTTTGTGCCTA AAA	
WI-14759	73 T C	GCGTTTGACTT GTGGGG	TCCCACTGC CCC	
WI-12535	50 A T T A T	CTAGGAGGTT GAGGTGTAGA	GCTCCACGAGA AGAGAGGAA	
WI-13805a	112 G A G G G A A	AAAGGCACAC	CTCAGCCTGOC TTGACC	
WI-12340	18 T C	---	---	
WI-14808	52 T A C T A C C C T G T	ACCACCACA CTAACCCTGT	GAGGCATCACA ATGTTAAGATT TT	
WI-14816	29 A T	---	---	
WI-142c	71 G T	---	---	
WI-142b	70 G T	---	---	
WI-2a	45 C T T T T A A A	GCTATTAGG AAACTGAACA	TCTAGAGCCCT CACATGGAT	
WI-173	57 C T C A A A A A	GGATACAGCA GTAAAGAATA	CCACCTCTAGA ATGTATGCTCT	

WI-14836	28 T C ---	---	TCITTTGGAGGGATAGAGGACAGAGTGTTCGTTGATTTTCGTTTCGGTTTCAGTTTGGTTGTCATT GGTTTTTGTTTTTGGTAAATTTTGGCCACCCTATAAAAAGCAGTGCACCCAGAGGCAG
WI-14856	60 A T A A	TTTGTTTGCTA CTTTTACAAA CTTT	ACATTTCCCTTATGATAGCAACAATAATATGATGGATGGTGACACGGAAATACTTAAATATTTAA AGTTTGTAAAAGTAGCAACAATAATGAGTATATACTATAAGTGATAGAGGATGTATATGAAAAA GGCTATAAAAAGCTCCAAA ATGGCAATTTACTTTATAGCAATGAACAAATATTGTCAAAGGGCAAATATTTTGTGCTG/AJAG TTAATAAAGTTAATATCTTTTACCACAAGCTAGAGGTCAACAGTACCCTATTATTGATTGCCACT ACCTGGC
WI-14867	46 T C A	GACATTCCAA GGCTCTCTAAC ACACTC	TTTTAATTAAACGTAAAAAGGCGAGACATTCCAAAGGCTCTCTAACA/TTCGAGTGTCTGCAGCCCCA TTCGCTTTGAGATGTGAATGTGTTAACCCAGGGTGA ACGGAGTCGCTCTGATGTATTCTGTCAAAAATGTTTGCCTGATTCTAATCATGAAAGAACAAAT AGAAAAATCCAAATGACAGATATTCTGCA/G/AJAATAAATGGCCTGACCTCATCAAAAACATCA ATGTCAATGAAAAACACAAAA TTTTGTACCTATTCCCTGTTTCAGTGCATGTACAGGAAGAGTTGTCTCAT/A/CJAGGTGCCACTAAGGAAA ACTTTCTCCAT/A/CJAGGTGCCCTGCTGTGCACGTTGCCTGGGCTTTGCTAACCCCTGGTGTGCATCT GCCTGTGTTCTGTCTT
WI-14733	98 G A A	CCAAATTGAC AGATAATTCTGC GCCATTTATT	TTTTGTACCTATTCCCTGTTTCAGTGCATGTACAGGAAGAGTTGTCTCAT/A/CJAGGTGCCACTAAGG AAAACCTTTCTCCATAAAGCTGCCTGCTGTGCACGTTGCCTGGGCTTTGCTAACCCCTGGTGTGCATCT TGCTGTGTTCTGTCTT
WI-14898b	79 A C ---	---	TTTTGTACCTATTCCCTGTTTCAGTGCATGTACAGGAAGAGTTGTCTCAT/A/CJAGGTGCCACTAAGG AAAACCTTTCTCCATAAAGCTGCCTGCTGTGCACGTTGCCTGGGCTTTGCTAACCCCTGGTGTGCATCT TGCTGTGTTCTGTCTT
VI-4898a	50 A C CA	CATGTACAGG AAGAGTTGTCT AGTGGCACTT	TGGTATTATTTCGACATTTAGAGGGCACACATTTGGACTCTGAC/G/AJATTCCTTGCAGCAG ACATTTGTGAAGCTGCTGGTGGCACACCCCATCAATCAGTGACTCTCTGACATGAGGGGCCACATG CACGATGCTCAGGTGTG
VI-14907	48 G A G G A C	GGCACACATT GGACTCTGAC GGGAAT	CTAGAATCTGGGAAGTCCAGCTCAGTGCACCAATACATTCAGTTCCTGGTC/G/AJAGGTCTCTTTTC CTGGTTTGCAGACAGATACCTTGTCTGTATCCTCACATGGCAGAGAAAGAGAGGAAGTAATCT CTGATGCTTTGACATCTGGGGCATTGCTGTCTCTAGAGAGACTACTTCTCTGGGACCAAGCAATTC TAGTGATAGTAGAGGACTCA/CJAGTGCACGTCACCTTTTCATATACAGATCAACCAATCCAAAAC CTACACCTCCAAACCACT
VI-14911	52 G A C	CAAACCAGGA AAAGGACCTT	ATTTCCCTTGATTGGCTGTGTAAGCCCTGTGAAGTCAATGCACATCTGGACACAGTTTTCTCTAGCA/G CJGAATTTATTGCTCTGGCTGTGATGGCTTTTCACAGC GTTTATTTTCAAAATGACACATCCAGATTGAAATGGGCACCTAGCGAAT/CJACTTGTGGACCACA AGACTTGTCTGAGAACATGTTCAAAGACAGTTTTCAAATAAAAAATTTCTTAATCAGGTCCA
VI-14913	88 C A ---	---	CTGGACACAG TTTTCTCTAGC
VI-14914	66 G C A	CAAGCCCAGGA CAATAAATTC	---
VI-14926	49 T C ---	---	---

'1-16083	89 C T	ATGTTTAACA CAACATATC AAGGAT	TGAAAAGATT CCAGCC	GCATCTTTATTACCACAGAACTCATTTATGTCTTAATCATTTGTTAATAATATAAGCATGTT TAACACAAACATATCAAGGAT[C/T]GGGCTGGAATCTTTCCATTCTATAGAAAAGCACTAACCATC CATTAAAGCAG
'1-14930	55 C T	GGAGGAGTCC CTCATGGAT	CACAACCAACC AATACCGC	CAGTTCGTGTTCTGGAACAGCTCTCCTTTCCACAGGAGGAGTCCCTCATGGAT[C/T]GGGGTATTG GTTGGTTGGTGATTTGGGAGCACGAGGGAGACAA TCAATACTGAAGGTGTCAAAGTGGTCTATTTGCCCCAGACATAACA[T/C]CTCTAAATCATCCTCTA GATCAGGGAGTCATAGGACCAATTAAGGCTCATTACACACAGTACTTTATGGAAAGGATT
'1-14946	47 T C	---	---	ACATTAACACAGCACAAATTAAGGGTCCCAACGAGTTGGTAGTGCCTTCCACTATGTGAGGACAC TAAGAAGATGGT[C/A]GTCTATGAACCAAGCTGCCGGTGCCATGCTCTTAAACCTCTCAGC ACATTAACACAGCACAAATTAAGGGTCCCAAC[C/T]GAGGTTGGTAGTGCCTTCCACTATGTGAGGA CACTAAGAAGATGGTCATCTATGAACCAAGCTGCCGGTGCCATGCTCTTAAACCTCTCAGC
5987b	80 A G	---	---	GAATAAAGTCTTATTGCCGTTCTTCAGGGAACAGGGAACTGCTAACTTGTCTAGT[C/T]JCCAACA ACTGATGTAAGATCATCTTCTGACCATAGCGAACCTGTAGGCTTGCTGTCCCTCCAGCTGA
5987a	32 C T	CACAATTAA GGGTCCCAA	GGAAGGCACTA CCAACTC	TTGTGTTAAATTCATCAAGGAATTGACAAAAGCTATTTTCTACACTTGAC[A/G]GTAATATACTG TTTCTGACATTCCTGTTATCAACTCCTCTGAAAATC GTGATTGATCTGTAATTATTGGGATTATTTTCAACTCTAAAATCCAGATGAAAATAATTTATCT CTTCTTTTCAAGGG[A/G]AAAAACCCCAATGAATGCAATTTTCAGTTTCTCCAGGCTTTGAACTGC AGCAGAAAATTCAAAGGA
'1-14948	56 T C G	CTAACTTGTC GA	GATGATCTTAC ATCAGTTGTTG GA	TAATTTTAAATGGTGAATTTGCTTCGTTCAAAG[C/T]GCTTAGAATGGAAGATTTAGTTGAGGAG GGGCAGGTTTGGGGTAGGCTCAGCGGCATAGTGCCACAAAGATGCCATCTCACACCTGGAG ACGTCCATGAGCACTCG TAATTGATTCAGTGGTGTATTGGATTTT[G/T]TTTATGCTAAGTATTATGTCAGAGGTGGAGAAAT AAAGAGGAAAAAAGAAACAAGTGGCTCTCGCATCAACGACCTGATCTGTGCACAGGAAGTTTGTGA GAGCTCACAAA
-16100	52 A G	CAAAAAGCTA TTTCTCTACAC TTGA	ACAGGAATGTC AGAAAACAGT ATATTAC	TGATTACATTTTAAATCATGCCTACAGCCCATCTAAGCCAAATTCAAACACCACTCTGCATTA AATGAAGCTGCAG[C/T]AGGAAAGCTGAGCACATAGCACCACTGATCGGAAAAGAAACGTA AAATCTCTTCTTTACACACAGATGAACCTTAAATAAATACAAATGCACCTGAAAATGCCCTTCTTGA TTTCC[T/A]TTTTCAGTTTAGGCTCAAATGGCTCTCCTCAAGGCTGGACCTCAAAGGCCACCT
14958	83 A G	AATAATTTAT CTCTTTCTTTT CAAGGG	AATGCATTGAT TTGGTTTTT TCAAACATAAT CTTCCATTCTA AGC	TCAAGCCAAATATCTGCAACAATAACATGATTTGAAAGGTATAGAAAATAACAGATGGATAGACAG AAAAAGACTCAGACTGTCTAAGTA[G/A]TGAAGTTTGTGCAGAACTAGAAAATAATCCACCT
14976	35 C T	GTTGATTTGCT TCGTTCAAAG	CTTCCATTCTA AGC	TAATTTTAAATGGTGAATTTGCTTCGTTCAAAG[C/T]GCTTAGAATGGAAGATTTAGTTGAGGAG GGGCAGGTTTGGGGTAGGCTCAGCGGCATAGTGCCACAAAGATGCCATCTCACACCTGGAG ACGTCCATGAGCACTCG TAATTGATTCAGTGGTGTATTGGATTTT[G/T]TTTATGCTAAGTATTATGTCAGAGGTGGAGAAAT AAAGAGGAAAAAAGAAACAAGTGGCTCTCGCATCAACGACCTGATCTGTGCACAGGAAGTTTGTGA GAGCTCACAAA
4981	31 G T T	TCAGTGGTGT TATTGGATTT	CACCTCTGACA TAATACTTAGC ATAAA	TGATTACATTTTAAATCATGCCTACAGCCCATCTAAGCCAAATTCAAACACCACTCTGCATTA AATGAAGCTGCAG[C/T]AGGAAAGCTGAGCACATAGCACCACTGATCGGAAAAGAAACGTA AAATCTCTTCTTTACACACAGATGAACCTTAAATAAATACAAATGCACCTGAAAATGCCCTTCTTGA TTTCC[T/A]TTTTCAGTTTAGGCTCAAATGGCTCTCCTCAAGGCTGGACCTCAAAGGCCACCT
1992	80 C T	TGCATTAAAT GAAGCTGCAG	GCTATGTGCTC AGCTTTCCT	TCAAGCCAAATATCTGCAACAATAACATGATTTGAAAGGTATAGAAAATAACAGATGGATAGACAG AAAAAGACTCAGACTGTCTAAGTA[G/A]TGAAGTTTGTGCAGAACTAGAAAATAATCCACCT
1002	72 T A	---	---	TAATTTTAAATGGTGAATTTGCTTCGTTCAAAG[C/T]GCTTAGAATGGAAGATTTAGTTGAGGAG GGGCAGGTTTGGGGTAGGCTCAGCGGCATAGTGCCACAAAGATGCCATCTCACACCTGGAG ACGTCCATGAGCACTCG TAATTGATTCAGTGGTGTATTGGATTTT[G/T]TTTATGCTAAGTATTATGTCAGAGGTGGAGAAAT AAAGAGGAAAAAAGAAACAAGTGGCTCTCGCATCAACGACCTGATCTGTGCACAGGAAGTTTGTGA GAGCTCACAAA
200	90 G A	GACAGAAAA GACTCAGACT GTCTAA	GTTTCTAGTTC TGCACAACTT CA	TCAAGCCAAATATCTGCAACAATAACATGATTTGAAAGGTATAGAAAATAACAGATGGATAGACAG AAAAAGACTCAGACTGTCTAAGTA[G/A]TGAAGTTTGTGCAGAACTAGAAAATAATCCACCT

11-12323	68	GA	CACAATACCTT CATGTACCTAT GAAATAA	CACTGGACATA TTCCCTACCTG	ATTTTGTGATGTTGGTTAAATCTTCTCTTTTATACACAATACCTTATGTAATAA G/AJACAGGTAGGGAATATGTCAGTGCACACAGAGGACTCACACCTGTGCATAGACAGCACC
11-14683	91	A	AAGGACGAT TTAGTATCTAA TAAACA	GGCATGTCCCA GTGTTTT	CATAAGTTGCATTTATTCACGTCCACGCCATCTAAAGCTACTGTGTACAGTAATCAGGACTGGAGAA GGGACGATTTAGTATCTAAAAACA/AJCAAAAAAACACTGGGACATGCCCTGAAATTGCAAGT TGGAGTTCGTAAGAATCTAC
11-13470	100	CA	CCTGCCCTTAT ATTGGAATTC	GGGAGACCATG GGTCTCT	ATTTGTGTTTATTTAGCACCTGAATTTAGGCAAGAGAAACATTTCTACCTGAAGACTCCATGCAGT CAATTTCCCTGCCTTTATATTGGAATTTCTA/C/AJAGAGACCCATGGTCTCCCCAAGTGAGGAAGCC AGGGCACTCAGCOCTTC
11-14712	38	T	TGAATGCTTC AAGTACAAAT CA	TGAAAGTATGT TGTATATGGTA TTGTGA	TTTGGTGCTACTTTGTGAATGCTTCCAGTACAAATCA/T/AJCTCACAATACCATATACAACATACT TTCAATCACAACCTCAATATAAAATAACCTACAAAATCACATTGC
-13712	40	A	TTTACTTTGTT GTCATTTTAT CTCTATTG	CCATAAGGTCT CACACTTTTCT TAT	TGGGATACCCCTTTTACTTTTGTGTCATTTTATTCTATTG/A/CJATTATAAGAAAAGTGTGAGACCTT ATGGCTTCTGCTTATTGGGCAATATGCAATATAATATTGTGTGTTGTTAAATTTATGCAT
16163	35	CT	TCGTGGTATGC AATTGAAATA A	GCTGCCAATTA CATTAACCTTAC AA	TCCTAAGATTTTACTCTGCTGATGCAATGAAATAA/C/JATTGTAAGTTAATGTAAATTGGCAGCATT GCCCCAAGTTTAAAGAGGACTATTTCTTTAAACAAAGACAGTGTCTGACATTTATTTTCAGGT
13453	88	T	AATGCACAAA ATCTTGCTCT TC	TCAGATTTTTA CATCTCTTTCT AGCA	TTTTTTTATTTGCATTTGAGTGCTTTTATTATATTGGGAATTGCAGTGATATTACATTTGTACAAAT GCACAAATCTTGCTCTCTTC/T/AJGTGTAAGAGAGATGTAAATCTGACCTAGTTGAACAGTCTT AATGAACCTCATTGTCAT
3167	58	T	CGCACTCTAA ATTAGAGATA GATTTTT	TGCTCGTGGTG AATAAGATG	CGGATATAATTATGTACCGCACTCTAAATTAGAGATAGATTTTTTCTGATATACATT/CJCATCTT ATTCACCACGAGCACACCCACGCACAGTAGAACAGTTCCACACCTGATAAATTGCACAAGATG
482	17	GA	---	---	GCAGAACCAATTAA/G/AJATCTGCAAGTTTTCCCAAGAACTCTGGAACCATAGTGCCTAAT GCCCTTTAAATCGATACTAAAGGAGAGAGATAAAGGACTGCTTGATGTGACAGTCACTGGT
269	81	T	---	---	TGTAGTCTTCAAAAGACATGTTGGCAGATAGCCAGGCCATCTATGTGTTATCCAGTATCATGTAC GCACTAAAAAAAT/CJGTGTGCTGCTGCTGTGAGTGAACCATTTGCTTAAGATAAA
56	97	A	TGAAGATTAA CCAGAGTCGC	AATTGTGTGCA TTTTGAAGAGA	ATCTGGTATTTGTATCCCAACAAGTATACAGAACTCTATAAAACCAACCCACCTTCAATA TTACACTAATGAAGATTACCCAGAGTCGC/A/CJCTCTTCAAAATGCACACAATTAAGACG
12	59	GT	GCAGCAAGAT TACATCAGTA ATGT	CTCCAAATAGC CTAGAGTATAG TAAGGT	CATGGCAGCAAGATTACATCAGTAATGTAATATAATACAGCTTTTTTTCATTGAAGCTTTG/TJACCTT TACTATACTAGGCTATTGGAGTGTCCCCAC

WI-15100	74 GA ---	---	TCTTATTCACAGCCAAAGAAATACCCAAATTAATTTCCAAATAAAGCAAAATTTGGAACAGACTGGA GTGAGAAC[G/A]GGTTCACCAAGCCCTCAAGACAAGATGGACACGGCAGCTGTTCTGGGGT GCATTTCTAGTGGACITTTAT
VI-14492	92 A T AATTACT	GTCACCATGTT ATATTTCTTT TAAGAC	TGGTACAGAATGTTTAATTACAGCGGGCAGTGATTCAGTTAAATAAATAAATAAATTTTATTTT CCCAATATATAAATACTAAATTA[A/T]GTCTTAAAGAAAATATAACATGGTGACAGCTTT TCTTTAATTTTATCGGAATCCAGGACACAACAAGAAAACCCCAAAACCATGGAGACAGCTTT ACGAGACACAACCTCTCCCCAC[T/C]GCTCTAGAGTGGGACAAAAGTGGGGTGAGAC AG
I-	89 T C ---	---	TCTTTAATTTTATCGGAATCCAGGACACAACAAGAAAACCCCAAAACCATGGAGACAGAAG AC[G/A]GAGACACAACCTCTCCCCACTGCCTCCCTGCTCTAGAGTGGGACAAAAGTGGGGTGAGAC AG
002b	68 GA ---	---	TCTTTAATTTTATCGGAATCCAGGACACAACAAGAAAACCCCAAAACCATGGAGACAGAAG AC[G/A]GAGACACAACCTCTCCCCACTGCCTCCCTGCTCTAGAGTGGGACAAAAGTGGGGTGAGAC AG
102a	30 C G GGACACAA	TCGGAATCCA TGTTTTTTGGG TGTTTTCTT	TCTTTAATTTTATCGGAATCCAGGACACAACAAGAAAACCCCAAAACCATGGAGACAGAAG AAGACGAGACACAACCTCTCCCCACTGCCTCCCTGCTCTAGAGTGGGACAAAAGTGGGGTGAGAC AG
15116	96 C T GTTGCACTAA	CGTGAATATGC AATTATTTATT ATGACA	TTTTCAATTTATTTCCAGAAAAGAAATCACATTTTCAGTAACAACCTTACATATAGAATTAACCTTTG TTCTGGAATGGAGCCCTAGTTGCAGTAA[C/T]GTGTCATAATAATAAATATTCATATTCAGGATTTTG TGAATAGGTGATTGGGA
2578	37 C T AATGGGAA	TCAAGCGACCA CCAACAC	GCAAAAGCAAAGCTATGGAGGCCTAAAGGAATGGAA[C/T]GTGTTGGTGGTGCCTGATACCTTGGT GCTTGTGTGTCATGGAGCAGAAAGTCTTCTGCTGTCATGCAGGGCGTCACATATTTAACTGCACTAAT TTGGCAAACTGTCACTC
153	40 A G GCATTGCA	AACCTCAGATA AGTGCAGTGC T	ATTCACGTTGGCCAAGATCTCCCTTATGTTGGCATTGCA[A/G]AGACACTGCACCTTATCTGAGGTTA GAAAAATGTAGTCTTAATAGCCCTCTTAATGTGTAGCAAGGCAAAATACCATTTCTCTAA CCTTTGCTCTGAACTGGGACCAGGATGTGAATAATTTTGAATCTGATGCAGGTCGAGGTATGGC TTTGAATCAAAATGGG[G/C]TGACTTTTCCCTGTTGGTGGAACACTCTGTGAGGGTTTGCA
215	84 G C TCAAATGGG	CCAACAGGGGA AAAAGTCA	AGAAAGAGTGGTAAAGCAAAGGCGATCATTTGGATGAATGATTATGTGTCAGGACCTTGAGGAC CTAGAAAGCAAAC[C/T]GGAGTGATTATGCCAATCAAAATTGCAAGTTGGAGATATGCTAAAA AATTTGCTAGTGCAAATGGACCCAGAAATTTGGAAGGGCTATGTAACACACA[G/A]TATGCACACCAC AGCCATGTCAGTGCACAGATCCCTTGTGATTCAGCTTTCTTAAAAACACATCAAAAGGCTGCA
25	80 C T C	TTTGATTGGCA TAATCACTCC	AGAAAGAGTGGTAAAGCAAAGGCGATCATTTGGATGAATGATTATGTGTCAGGACCTTGAGGAC CTAGAAAGCAAAC[C/T]GGAGTGATTATGCCAATCAAAATTGCAAGTTGGAGATATGCTAAAA AATTTGCTAGTGCAAATGGACCCAGAAATTTGGAAGGGCTATGTAACACACA[G/A]TATGCACACCAC AGCCATGTCAGTGCACAGATCCCTTGTGATTCAGCTTTCTTAAAAACACATCAAAAGGCTGCA
32	51 GA ---	---	TGACTGTATACCAATGCTGTGCTTAATGTTAGTGACAGACAGATAAATAGGATG[C/T]GTCTGTTT GCCCTTAAGCAATTTACAACCTCACTGGGGAAGAAACAGACATGCAAAACAGAGATAAACACAAT
3	55 C T TAGGATG	TGCTTAAGGG CAAACAGAC	TGACTGTATACCAATGCTGTGCTTAATGTTAGTGACAGACAGATAAATAGGATG[C/T]GTCTGTTT GCCCTTAAGCAATTTACAACCTCACTGGGGAAGAAACAGACATGCAAAACAGAGATAAACACAAT

VI-15182	49	C A	GCACAACCCAG GGCAAAATA	GCATGGGTAA TCCAGCA	GAGACTGCCCTGTGACACA ATGCTAATGGGTTACCTTTATTTAGTAATCATGGTCCCTCATAAGCATGGTCCAGATCCG
VI-15198	38	T C	GGGOCCTGGC ACTATG	ACTTATCCGTC AGCAGAGTAG	GTGGACCTCTACAAGTACCATGGCCCTTGGCACTATGTCCTACTCTGCCTGACGGATAAGTTGGC ATATGGTTCCAGATTGCTTGTCTACACAGTCCAGTTCCCTAGAGACTAGTCCGACTCTCTT
I-12601	42	T C	CATTATTGAG TATCTTGCTT TGAT	GTTGTAGTCTT ACATGCTTACG TAGAC	TCAAGTGGTAATAGCCATTATTAGTATTCTTGCCTTTGATTTCCTACGTACGTAAGCATGTAAGACT ACAACATTACGACCCATCTCTTCAAGAGGAAGCTGGTATTATGGAACAAATTTTGTCAATTCAGAT T
-14510	104	A T A A	TGGCAAAATA TGCATAACAA	TTGAAATGGT TAACTGGCA	ATGTTGAGAGTAATATGCCCTACATATTTAGTGAAGTACACCCAGATATTTTGGGAGAAGAG TTGTTTGCCTTTTGTGGCAAAATATGCATAACAAATJATJTGCCAGTTTAAACATTTTCAAGAGT
15239	57	T C A	CATTGCAAT AAACACCATC	GGACCTTATCT GTGGACTCAGG	CAGTGTGATGACATTTCAATGGGAAAGATTGTGCATTTGCAATAACACCATCATTTTCCTGAG TCCACAGATAAGGTCCCGGAGAGGGCTTCCCTCCTCTTCTCGCTGGTTGACGTTCCACGCGAGT GAAGCCTTTTCTGGAATG
2634	52	T C AGT	GCATCATATG AACTGTCTAGC	GGACAAATTGT AAACATAGCT AATAGC	ATGAGTTTATAAACTGGAGACAGCGCATCATATGAACGTGTAGCAATTAATTCCTGCTGGTGG TGTTTACAAATTTGTCTGAAGGGTCTAGATGTGTACACCCAGAAAGTGGTATTCCTGA
1249	34	T C A A A G T C T A A A	GGGCTTGACAC AGATTTTAAAC AA	GGAAAGCCAG AGATTTTAAAC AA	TTTGCTTGAAGGGCTTGACACAAAGTTCTAACTTTTCCTGTTTAAATCTCTGCTGGTGG TGAGGAGGCACAGGCTGGGCTTCCAGGTATCCACTGTGTCGCCGATCTGTTCCCTCCACTCCCCAG CCACATCTTGGCTCT
159	28	C T G C A A A T G C	AAGACACCGT GCAAAATGC	CCCTCTCCTCA GTGCATTT	CTGTCCGGGGAAGACACCGTGCAAAATGCCTTAAAGTGCACTGAGGAGGGGAGGTCTGTGACTC CCAAACCCCTCGAATATTTTATGAATCTAAGAGTCCAGACGAGTTTCCACGGAGATCTGC
348	41	A G T A A G G A T G C	CCTAGTGGCAT AGTGGACATCC T	TTGCTACTAA AGTGGACATCC T	TCCCAGATTGTATGGAATGCCCTAGTGGCATTAAAGGATGCAGGTAGGATGTCCACTTTTAGTAGC AACCGATGTTAATTCACACTACTCCATGTTAGGTGCTTACTTGGATTATCTCAGTTTAAACCCACA
84	64	G T A C A G C T G T G C	GGAACAACAA AGCCTAAATGG	GGAACAACAA AGCCTAAATGG	ATGAGAGGTAAGTGTCAACAGTAGGCTTAAATATTCAGTAAACCATGCTGTAAACAGCTGTGC[G/ TCCATTTAGGCTTGTGTTCCATTTAGAGAGCACAGGAGAGGAAATTTAGCATAATTTCTT
0	75	G A G A	AAAGGATGAA GCTAATCATG	TCTCTOCAGGG AGCTTGC	TTTATAAGCTGAATGAAGAGGTGCACACAGCGGACACTGTGCTAAGTGGAAACAAAGGATGAAGCT AATCATGGA[G/GA/GCAAGCTCCCTGGAGAGACAGGGACAAATCAAGAATGAGCTGGAGAAATTA TCCCTG
3	39	T C G A G G C	CATGTGGCTGG GAGGC	CCTTCCACCAT GATTGTGA	AAGGTTAATGGACTCACAGTTCCATGTGGCTGGGAGGCTTCACAAATCATGGTGGAAAGGCAAAA GGCACATCTTACATGGTGGCAGTCAAGAGAGAAATGAGAGC
123	C T C		AGTTGGCATT AATAGCCTAT	TGAAACTCCCA CATGGAGTT	TATTTGAGTATTTTATCCATGGGCTTCTCACTCCCTATACATTTCCAGGGTTGAGGTAGTCTACCC CCATAGGTTCAAGAACCTATGACCTGTATCTTCCAGTTGGCATTCATAGCCTATCCTTAACTCCATGT GGGAGTTTCAATAATAA

11-14528	62 T G	TTTAACTTTT TCTGGATGGTA TAAAT	CTCGATTAGCA CTTATTATAAA AATTAAAA	TATGCTTTATTGAAGAGAAATAGGCTATTAAATATATTTTAACTTTTCTGGATGGTATAAATTT/GJTT GAATTATAAATTTTAAATTTTATAATAAGTGCTAATCGAGACATCACTGGGTATAATTGA TATTTCTTTCCGTTTCGGATGCAAAACAAAAATTTTAAAGAAAATGTGACTTCAAGGAAAAAGA ACAAATTTTCT/CAAAGACTTGGGGAGTGAAGGCAGAGCCTGGTGCAGATGGACGAGGTCTGCAGA CG
11-15347	74 C T	GACTTCAAAG GAAAAGAACA TAAAT	TCAC TCCCCCA AGCTTTTG	GTATTTCTGATGCTTTGACATCTGGGGCATTGCTGTCTAGAGAGACTACTTCTCCTGGGACCAGC CAATTTCTAGTGATAGTAGAGGACTCA/C/AJCTGCACGTGCACCTTTCATATACAGATCA TTTATTGGCTGTCTGTATAACAATGTGGTGAACAC/G/AJCTTAAATTCAGGACATCTTCCACCTTG TTTTGGCTTCCAGTTGACTGCAAGACCAGTGTGAGGCACATAGGCTGATTATCAGTGG AGAAATTTTCTTTTAAACAGGACAAGTAACAGATTACATCAAACTTCAGAACTTCTCAATAC CTAGTTATTATACACATTTCCCATCTGTCTTGCA/G/AJGGAGGGATCTTGGTCGGCTTAACA CCAGCTGGAGGTGGAATAAATGCGGCAACACAGAAAAACACACAGCTACACAGGCCTGCATT TGGCTTA/T/CTGTCCTGAAAAAGAGGGCCGACCTCTTGATAAAGAATGTCT AAGTAGAACACAATAGAAATGGCTCAAAAATATCAGAATGCATGACATCAGCAGTAACTAGT TTGGTAAACTTGTTCAGTTT/CJAAATATGTATGTGTCCTGTCATGATTAAATATCCTTCT TACCACAGTCACTTAAAGAACCAAGCTTAGGACTAGGACACACCATGCAGAAAGAGCAGGGA GACCAGACACTCTGGTTGAGATGATTTTAAATGCCGAGCCGACACCCACA AAGTAGAACACAATAGAAATGGCTCAAAAATATCAGAATGCATGACATCAGCAGTAACTAGT TTGGTAAACTTGTTCAGTTT/CJAAATATGTATGTGTCCTGTCATGATTAAATATCCTTCT TACCACAGTCACTTAAAGAACCAAGCTTAGGACTAGGACACACCATGCAGAAAGAGCAGGGA GACCAGACACTCTGGTTGAGATGATTTTAAATGCCGAGCCGACACCCACA CACAACATTCAGAAAGTTTCTGCAATTGTCTCTCTGATGTCTAAAAGATTGAGCTTTGACTAT ACGATTTCCACACTGAACGATTCATAAGGTTTCTCC/CJ/AJAGTATGATTTCTGATGATTAAATA AGCCCCGAATCTGGCTAAAGGCTTCCACATTCAGACATTTGTAAGGTTTCTCCAGTGTGGAC TCTCTGGTTGCACAAGAATGGAATCGGCTGATGCTTCCACACT
11-14546	95 C A	CCAAATTTCTAG TGATAGTAGA GGACTCA	AAGTGCACGT GCAGG	CTTACTACATGGGAACATCAATGCAACAAGTA/G/AJAATTTGTAACTCAAGCCACAAACTTAGTTA ATAATCATGTTAAGGGACATTGCCAAAGAGCAACTGATGCCTCAGTGAA TATTAGATAAAACCTTTGTTCCCGATTTCAGGATGTTTAAATTTGCTTCTCTTAACTCTGTGACTTT CCTGGTTCAAAGGACAGT/AJGATGGACAGCAGAGGAGTGGGGTCTGAAAAATGTAATCTTT GTGTCAAGGCACCTGTGGCTCACAACCTGCCCTGTGAGAGGATGCTGCTTCCAGCCCTAAAG ACACTAGGGCTTTTCAATGGACGGGTGTTGAAGCAGCCAGATGGTAAGG
11-15353	37 G A	---	---	CTTACTACATGGGAACATCAATGCAACAAGTA/G/AJAATTTGTAACTCAAGCCACAAACTTAGTTA ATAATCATGTTAAGGGACATTGCCAAAGAGCAACTGATGCCTCAGTGAA TATTAGATAAAACCTTTGTTCCCGATTTCAGGATGTTTAAATTTGCTTCTCTTAACTCTGTGACTTT CCTGGTTCAAAGGACAGT/AJGATGGACAGCAGAGGAGTGGGGTCTGAAAAATGTAATCTTT GTGTCAAGGCACCTGTGGCTCACAACCTGCCCTGTGAGAGGATGCTGCTTCCAGCCCTAAAG ACACTAGGGCTTTTCAATGGACGGGTGTTGAAGCAGCCAGATGGTAAGG
-14580	100 G A	CATCCCATCT GTCITGCA	CCGACCAAGAT COCTOC	GTATTTCTGATGCTTTGACATCTGGGGCATTGCTGTCTAGAGAGACTACTTCTCCTGGGACCAGC CAATTTCTAGTGATAGTAGAGGACTCA/C/AJCTGCACGTGCACCTTTCATATACAGATCA TTTATTGGCTGTCTGTATAACAATGTGGTGAACAC/G/AJCTTAAATTCAGGACATCTTCCACCTTG TTTTGGCTTCCAGTTGACTGCAAGACCAGTGTGAGGCACATAGGCTGATTATCAGTGG AGAAATTTTCTTTTAAACAGGACAAGTAACAGATTACATCAAACTTCAGAACTTCTCAATAC CTAGTTATTATACACATTTCCCATCTGTCTTGCA/G/AJGGAGGGATCTTGGTCGGCTTAACA CCAGCTGGAGGTGGAATAAATGCGGCAACACAGAAAAACACAGCTACACAGGCCTGCATT TGGCTTA/T/CTGTCCTGAAAAAGAGGGCCGACCTCTTGATAAAGAATGTCT AAGTAGAACACAATAGAAATGGCTCAAAAATATCAGAATGCATGACATCAGCAGTAACTAGT TTGGTAAACTTGTTCAGTTT/CJAAATATGTATGTGTCCTGTCATGATTAAATATCCTTCT TACCACAGTCACTTAAAGAACCAAGCTTAGGACTAGGACACACCATGCAGAAAGAGCAGGGA GACCAGACACTCTGGTTGAGATGATTTTAAATGCCGAGCCGACACCCACA AAGTAGAACACAATAGAAATGGCTCAAAAATATCAGAATGCATGACATCAGCAGTAACTAGT TTGGTAAACTTGTTCAGTTT/CJAAATATGTATGTGTCCTGTCATGATTAAATATCCTTCT TACCACAGTCACTTAAAGAACCAAGCTTAGGACTAGGACACACCATGCAGAAAGAGCAGGGA GACCAGACACTCTGGTTGAGATGATTTTAAATGCCGAGCCGACACCCACA CACAACATTCAGAAAGTTTCTGCAATTGTCTCTCTGATGTCTAAAAGATTGAGCTTTGACTAT ACGATTTCCACACTGAACGATTCATAAGGTTTCTCC/CJ/AJAGTATGATTTCTGATGATTAAATA AGCCCCGAATCTGGCTAAAGGCTTCCACATTCAGACATTTGTAAGGTTTCTCCAGTGTGGAC TCTCTGGTTGCACAAGAATGGAATCGGCTGATGCTTCCACACT
-8540	73 T C	GGCCTGCATTT GGCTTA	GCCTTCTTTT TCAGGCAC	GTATTTCTGATGCTTTGACATCTGGGGCATTGCTGTCTAGAGAGACTACTTCTCCTGGGACCAGC CAATTTCTAGTGATAGTAGAGGACTCA/C/AJCTGCACGTGCACCTTTCATATACAGATCA TTTATTGGCTGTCTGTATAACAATGTGGTGAACAC/G/AJCTTAAATTCAGGACATCTTCCACCTTG TTTTGGCTTCCAGTTGACTGCAAGACCAGTGTGAGGCACATAGGCTGATTATCAGTGG AGAAATTTTCTTTTAAACAGGACAAGTAACAGATTACATCAAACTTCAGAACTTCTCAATAC CTAGTTATTATACACATTTCCCATCTGTCTTGCA/G/AJGGAGGGATCTTGGTCGGCTTAACA CCAGCTGGAGGTGGAATAAATGCGGCAACACAGAAAAACACAGCTACACAGGCCTGCATT TGGCTTA/T/CTGTCCTGAAAAAGAGGGCCGACCTCTTGATAAAGAATGTCT AAGTAGAACACAATAGAAATGGCTCAAAAATATCAGAATGCATGACATCAGCAGTAACTAGT TTGGTAAACTTGTTCAGTTT/CJAAATATGTATGTGTCCTGTCATGATTAAATATCCTTCT TACCACAGTCACTTAAAGAACCAAGCTTAGGACTAGGACACACCATGCAGAAAGAGCAGGGA GACCAGACACTCTGGTTGAGATGATTTTAAATGCCGAGCCGACACCCACA CACAACATTCAGAAAGTTTCTGCAATTGTCTCTCTGATGTCTAAAAGATTGAGCTTTGACTAT ACGATTTCCACACTGAACGATTCATAAGGTTTCTCC/CJ/AJAGTATGATTTCTGATGATTAAATA AGCCCCGAATCTGGCTAAAGGCTTCCACATTCAGACATTTGTAAGGTTTCTCCAGTGTGGAC TCTCTGGTTGCACAAGAATGGAATCGGCTGATGCTTCCACACT
1039b	97 T C	---	---	CTTACTACATGGGAACATCAATGCAACAAGTA/G/AJAATTTGTAACTCAAGCCACAAACTTAGTTA ATAATCATGTTAAGGGACATTGCCAAAGAGCAACTGATGCCTCAGTGAA TATTAGATAAAACCTTTGTTCCCGATTTCAGGATGTTTAAATTTGCTTCTCTTAACTCTGTGACTTT CCTGGTTCAAAGGACAGT/AJGATGGACAGCAGAGGAGTGGGGTCTGAAAAATGTAATCTTT GTGTCAAGGCACCTGTGGCTCACAACCTGCCCTGTGAGAGGATGCTGCTTCCAGCCCTAAAG ACACTAGGGCTTTTCAATGGACGGGTGTTGAAGCAGCCAGATGGTAAGG
39a	87 T C	---	---	CTTACTACATGGGAACATCAATGCAACAAGTA/G/AJAATTTGTAACTCAAGCCACAAACTTAGTTA ATAATCATGTTAAGGGACATTGCCAAAGAGCAACTGATGCCTCAGTGAA TATTAGATAAAACCTTTGTTCCCGATTTCAGGATGTTTAAATTTGCTTCTCTTAACTCTGTGACTTT CCTGGTTCAAAGGACAGT/AJGATGGACAGCAGAGGAGTGGGGTCTGAAAAATGTAATCTTT GTGTCAAGGCACCTGTGGCTCACAACCTGCCCTGTGAGAGGATGCTGCTTCCAGCCCTAAAG ACACTAGGGCTTTTCAATGGACGGGTGTTGAAGCAGCCAGATGGTAAGG
4	107 C A	---	---	CTTACTACATGGGAACATCAATGCAACAAGTA/G/AJAATTTGTAACTCAAGCCACAAACTTAGTTA ATAATCATGTTAAGGGACATTGCCAAAGAGCAACTGATGCCTCAGTGAA TATTAGATAAAACCTTTGTTCCCGATTTCAGGATGTTTAAATTTGCTTCTCTTAACTCTGTGACTTT CCTGGTTCAAAGGACAGT/AJGATGGACAGCAGAGGAGTGGGGTCTGAAAAATGTAATCTTT GTGTCAAGGCACCTGTGGCTCACAACCTGCCCTGTGAGAGGATGCTGCTTCCAGCCCTAAAG ACACTAGGGCTTTTCAATGGACGGGTGTTGAAGCAGCCAGATGGTAAGG
2	32 G A	GGGAACATCA ATGCAACAAG T	TTTGGGCTTG AGTTTACAAAT	CTTACTACATGGGAACATCAATGCAACAAGTA/G/AJAATTTGTAACTCAAGCCACAAACTTAGTTA ATAATCATGTTAAGGGACATTGCCAAAGAGCAACTGATGCCTCAGTGAA TATTAGATAAAACCTTTGTTCCCGATTTCAGGATGTTTAAATTTGCTTCTCTTAACTCTGTGACTTT CCTGGTTCAAAGGACAGT/AJGATGGACAGCAGAGGAGTGGGGTCTGAAAAATGTAATCTTT GTGTCAAGGCACCTGTGGCTCACAACCTGCCCTGTGAGAGGATGCTGCTTCCAGCCCTAAAG ACACTAGGGCTTTTCAATGGACGGGTGTTGAAGCAGCCAGATGGTAAGG
87 T A	---	---	---	CTTACTACATGGGAACATCAATGCAACAAGTA/G/AJAATTTGTAACTCAAGCCACAAACTTAGTTA ATAATCATGTTAAGGGACATTGCCAAAGAGCAACTGATGCCTCAGTGAA TATTAGATAAAACCTTTGTTCCCGATTTCAGGATGTTTAAATTTGCTTCTCTTAACTCTGTGACTTT CCTGGTTCAAAGGACAGT/AJGATGGACAGCAGAGGAGTGGGGTCTGAAAAATGTAATCTTT GTGTCAAGGCACCTGTGGCTCACAACCTGCCCTGTGAGAGGATGCTGCTTCCAGCCCTAAAG ACACTAGGGCTTTTCAATGGACGGGTGTTGAAGCAGCCAGATGGTAAGG

-6375	28 A GAA	GGTTATTGCA TATGGAAATC	AATGTGAGATC TTTATTCTAAC CTTTTT	AAGGTTTATTGCATATGGAAATCAATAGAGJATCTTTTACAAAAAGGTTAGAATAAAGATCTC ACATTTGTAAAGGCACATATGAAACATTTATAGCAAGCACAAAGGCAGTGAGACATCAACAA TTGTGCTCAACAGATGAAATTCATAACCTTGTTTCTGATAAGACAAATTCAAACATACAAATCAAT TACAACAAATGTGCTTATCAGCTCCCTCCACCCCTATATTTAAJAGCAACTGACAGTTTTGAAG GACACCAAGACAATAGGGCT
-6409b	112 T A ---		---	TTGTGCTCAACAGATGAAATTCATAACCTTGTTTCTGATAAGACAAATTCAAACATACAAATCAAT TACAACJATJATGTGCTTATCAGCTCCCTCCACCCCTATATTTAATGCAACTGACAGTTTTGAAG GACACCAAGACAATAGGGCT
I-6409a	73 A T ---		---	CTAATATAATCCTGGGCACATGGATTCCAAGAGAGATTTTGCAGCAGATTTTATTATAGTTACTTAA CAGCTAAATAATAAGGGTGTATTTAACTTACTTACAGAGTCACTAAATAATGGAGGGGAAAGGAAA GAGTAGGGCTAATCCAGTAGAGACTGAAGCTGJATATCAACCTTCCCTAAGCATCTGTCTGGTCCG
-6523	165 G T GCTG	GCTAATCCAGT AGAGACTGAA	AGATGCTTAGG GAAGGTTGATA	CAGCTAATAATAAGGGTGTATTTAACTTACTTACAGAGTCACTAAATAATGGAGGGGAAAGGAAA GAGTAGGGCTAATCCAGTAGAGACTGAAGCTGJATATCAACCTTCCCTAAGCATCTGTCTGGTCCG
3554	195 C G ---		---	TCTCTAGCCCTATTAGGCTACACTGTAGTCACCTTCTATGAGAGCAAGGGAACAGGAAGATGGGC TCTGGAGTCCAAACAGGATGTGGACGTCCTGGTAGTCTCTCTTTTACACAACTTTTCCCTGAGA ACTGTCCAGTCAGGTGGACCTTCAACAAACAGCAAGCTAAACTCTGAGAGAAACJGJCTG
358b	68 C T ---		---	ACTTTCAGAAAGCATAAAGCTGAGAAAAA ATTGTAATTAATAATTTACATGGGCCATTTATTAAGGACATTTGTGAATGTTCCACTTTGTTTTAA JCTJAAATTACAAACATGTGGCTTAAATAATGTACAGATCAATGTAAACAGTTTGAAAAATGGGCG
58a	42 G C ---		---	ATTGTAATTAATAATTTACATGGGCCATTTATTAAGGACATTTGJTGTAATGTTTCCACTTTGTTTT AAACAAATTACAAACATGTGGCTTAAATAATGTACAGATCAATGTAAACAGTTTGAAAAATGGGCG
9	75 T C GTCATA	TCTTTTCAGAG AATAAAAGTT	TGACACAGCAT CCATTGCT	AACCAACAAACTAAGAAATGGGAAAAAGAAATGGCAGGTGAAGAACTCTTTTCAGAGAAATAAA AGTTGTCATAJTCJAGCAATGGATGCTGTGTCAGAACATCTGCCAATAAACTTTAAGAAAAAGGA ACTCAATGAAGTTACTGTTATATAAAACAGGAGCTCACAGCAGGGATGTAAAGATTAATGGAAGAT ATCGTGAGCCAAAAC
134 T C ---			---	CTGCCCTGAACCAATCAGATTTAGTTAAATCAAAATCAATCAAACTCCAGCTGTTCTCTTGTCTTT TTACTTAGCAAAAGGAAACCTTGTAGTAATGCTACTTGACAAGAAAGATCATTTCTCAAGCACAJ TJACCCAAACTTGAAGGTGATTGAACCCAAATAATGGGTGGGAAACACCAATGAGGTGGAGGA ATGAGAAAGATGTGTGGGCCAAAGCTATCTGGTTATTTTGTATTTGCTTGGCAAT
106 C T AGCCACAGC	CAGACTCTGG TAGCC	ACATAAAATA TTGCAGTGTAT	---	TGCTAAACACCAACCATTTAAGGAGAGTACTAGGAAAACTACCAACACAGCATGTGAAACAGT TGGGCAGGTGGTAAAGGGCACAGACTCTGGAGCCACAGCCTJGGCTAATACACTGCAATATTTTA TGTTAGCAAATTATAGCTGGTCTGTGTATAACCAAGAGCGGTATCTGG

VI-6690a	28 T C	AAACACCACC ATTATTAAGG C AGAG	GCTGTGTTGG TAGTTTTTCCT	TGCTAAACACCACCATTATTAAGGAGAGTTCJACTAGGAAAACTACCAACACAGCATGTGAAAC AGTTGGGCACGGTGGTAAAGGCACAGACTCTGGAGCCACAGCCGGCTAATACACTGCAATATTTTA TGTTTAGCAAATTATAGCTGGTCTGTGTATAACCAGAAGCGGTATCTGG
NI-6770	53 A G	CAAAACCCAA AACATCACA	GCTTTTGGAGT GTATAATAGTA TGAATAA	GATGTTTATGACACAGATCTTCCCAAAGTAATCCAAACCCCAAAACATCACA[A/G]AATTATTTCAT ACTATTATACACTCCAAAGCAAAATACTTCAACTGCAATCC
VI-6686	151 A G A	GCATTCCTCCA AAAACAAAGA	CCTTGTAAGTG ACTATTCCAAT GTT	ATTCTGTAGGCAAGGTTTCAGCAATCAGCTAGCATAATCTTGACCAATGGGTGAGTCAGCCTCA TCACAGAGATTTTTTTTTTAATTTAGATGAATTCACATTTAAACATGTTAACTCCAAGCATTCT TCCAAACAAAGAAT[A/G]AACATTGGAATAGTCACTTACAAGGAC
I-6761	32 C A G	GATCTAACAG CTGCAGATG	AAAAGCTGGG AAGGAAGAAG	CCTGAGAGGCAGATCTAACAGCTGCAGATGG[C/A]CTTCTCTCCAGCTTTGTGAACAAAAAC AATTCTCTAAGGCATCAGAAAGCACTGAGTGCAAAATGGGTGTTTCAGGTACAAGGCTC
6844	225 T C	---	---	TAAATACTGCCAACTAGCATTACGTCCACTCTTGCCATCATTAAAAACAAAGGGTATTTCTCCTTG GTATTTTCAAATGATGCATTATACAATAACGAAGTTAGAACTTAAATGCACCTGATTAAATTATG TAACTGGTAATTTGTTTAAAGCATAATAATTTGGTCTTCTTCATATAAATGGAAATTTTAAA TATTTCTCTGATAGCTTGAGGTT[C]ATCATTAGTAGTGCAAGTGTC
824	112 A G	---	---	CGGTTTGTACACTTAAATGGGTTTTTTTTAAGGGATTTTTTTCAGGCTTGTGACCAACATCAA ACAAAGGTACTGAGTACTCCACAGGTACAGAGTGTGCCAA[A/G]CACCTTAGAAAAATTACAT GACACGGAGAAAAATGCGCTCTTGCTCTTGAAGAGCTTACAGTCTAGGGATTGACAACCTCACAGT CITTAGGAACIGGGCAAGTAAGGCAATTTTCATCCCTAGAGCTATTGTG
389	139 T C AATTC	GAANAATGAG ATGCAGTTAA TCT	TCACITTTGTGG CTTTTAATTAT TCT	GTACAAAAAAGCTGAGAAGAGCCCAACATGGAAGTGTCAAGAAAAACATTCTGATAGGTACGGACAA AAGAGCTCCTTCAATCAAGGAGTTACATATTAGTCTCACCATGCTAGAAAAATGAGATGCAGTTA AAATTC[C]JAGAATAATTAAAAAGCCACAAAGTGAAACTGTTGTTCTGGGGCCCTATGTTGTAGATT CTCT
11	216 T C	---	---	TCCCCAGCTCATATTTATTTGGGCACAGAGTGGGCACCTCAAATATCTGATGAACCTTGAACTGAA AAGAGGTCTCCTTAAACAAGATATCATCTCCGAAGAGAGAGTCCCAACCATATAAAATGTATGAT CAAGTCCCAGAAAACTTTGCCTTCCCAAGGAATGTGTTCTAATTTGGTTTCAAAGCACACTGGTTCC CAGTTTTACCACITTT[C]CATGACATTGGACAATAGTACTACTTTTCTAC
3	112 G C	---	---	GCCAGTCTCTAGTAAGTCTCTAGGGACATGACCAGACAGCCCAAGCCCTGTTCTATATGAAGACAAAAC AGGTGGCCATACCTGGGTGGAGGGATACCGCTGCTATTCACAGAT[G/C]AAGATTTGGTGAAGGAG ACCATGACAGATGACAAACGGGAACAGTTTCTCAAAAACAGAGGTATGA
74 C T	---	---	---	AAAAGCTTTAAAAAAAAGTGGTGTCTATCTTTAGAAACACTTTCAGCAAGATCAAGTAGCCAGCT ACAGCCTTC/TGGTGCATCTTAACCCCTCTCCTTTT

VI-9617	37	G T	---	TGCTCTTTTATTTACAGTTTCAACACACACGCCGTG[G/TTGGCACAGTCTACCAAAGTGGCCGAG CGCCACGCTTGGCCGGAAGGTCTCATTTCTGCTCTATGGACTGATTGAATTTGGGATGGCCAG CTCCAGAATGTTCCAGTGGGGGCACTCTGTGGCAGAGAGGCTGAGCCCTTGGCCACACTGGCACCA AAGAGGTTGCACGATGCAGCTTGCAAGTGGTCCAGCCGGGTGCTGTG
II-9657	121	T G	---	AATGCTGGAGAAACATCAACATTGAGTTGACATTTGTTTGTGAAGTATAGTACCATCCACTAT CATGAATTTTTTTCATTACAAATGATAGAAAGCCAGATTCTCAAAATAAG[T/G]ATAATTCCTT TGTATTAATAAATGTTTATAATGTTTATGAAGCTCATTACATTATCTTTTTTAAAAAAGTAAAAA TTTTAGAACATATGACGCTTTTCATAATTAATGCTTTTGATATAGATTTGAGG
119b	114	G C	CCTCCCAAGTA CAGGTGTGGTG T	CAGGGCTTGTCTGTCTCCAGGCTAGAGTGAGGTGACACAATCAAGACTCACAGTAGCCTCAACCT CCTATGCTCAAGCCAGCCTCCCAAGTAGCTGGACTACAGCATGT[G/C]ACACCACACCTGGTTAA TTTTTTAATTTTTGTAAGATAGGCTCACTATGTTGCCCGTCTCAAAAAACAACCACTAAC CAGGGCTTGTCTGTCTCCAGGCTAGAGTGAGGTGACACAATCAAGACT[G/C]ACAGTAGCCTCA ACCTCCTATGCTCAAGCCAGCCTCCCAAGTAGCTGGACTACAGGCATGTGACACCACACCTGGTTA ATTTTTTAAATTTTTGTAAGATAGGCTCACTATGTTGCCCGTCTCAAAAAACAACCACTAAC C
19a	51	C G	---	ACAGGAATCTGAAAGTTACCAAGGCAATTTTCCCTTTTAGGATCATAAAGACTACAGACTTAAGCTT TTTT[C/T]CTTTTCCATATAATACACAAAATTTCTAAATATCCTTAAAAAAGAAAATATAAATAGT TTCAGTATGTTATGTAGAGTCACATACTATGCAAAAATATTTTAAATTGAGGGAATAGGCCAAT TGTTAACATTTTTATTGGTACGTGCTCTCAGTACAA[C/A]AACAGCATCAGTAGTGTACACTTTTGAT AAAAAGGAATTTTTAGCTTAGTAGAAAAGAAAGCCCAAGGTCAGAAGTATAATGAATATGTACAT CTTTATGGAACTGTTTGTGTGACCCTTTTATCTTCCCTGTGGATGAGATGTATGCACACACAAGT AAA
3112	71	CT	TCATAAAGAC TACAGACTTA AGCTTTTT	TGCTATTTCATGACAGACAGTGGAGACAATATTTCTATTTTACAGATGGAATAGACCCAGACATTA TTCAGTACTTTTAAACCCTAATAGTGGAACCCTGAGACTTTA[G/A]ATCTGCAAGGGGTTTAAATAT GCAAATATCACATATATTTCCATTTTAAACACCATATTTAAGTTTCCATTTCTTAAAGAAAATGA TAAAAAATGTTTTCCCAATAT
988	36	C/A	CTCAGTACAA GTTT	TGTATAAAAAATCCAACTTGTTCACAAAGTACATATGCTCTATGATTTTATGCATACATCCATATAC ATATATCAAGGTAAAGTCC[A/G]TACAAAAAACAAGCATTTCTATGGCCAGTGTTCACAGAAGT AAGACTGTGCAAACTTTATCGTATAGTCAATGAGATTGCACACTAAGGCGGATGAGGCAAGCA AGTTGTGTC
108	GA	CTTT	CATTATTAAC CCCTTTCAGA	ATATATCAAGGTAAAGTCC[A/G]TACAAAAAACAAGCATTTCTATGGCCAGTGTTCACAGAAGT AAGACTGTGCAAACTTTATCGTATAGTCAATGAGATTGCACACTAAGGCGGATGAGGCAAGCA AGTTGTGTC
7	87	A/G	AAAGTCCA ATATCAAGGT ATGCTGTTTTT	ATATATCAAGGTAAAGTCC[A/G]TACAAAAAACAAGCATTTCTATGGCCAGTGTTCACAGAAGT AAGACTGTGCAAACTTTATCGTATAGTCAATGAGATTGCACACTAAGGCGGATGAGGCAAGCA AGTTGTGTC

12611b	50 GC ---	---	GTCTCAGGCCCTTCTCTGGCTGCAGAGCCGCTTCTCAGGTTGCCGTGC[G/C]TCTCCTGGCCTCTAG TCTTCCCTGCTCTCCGAGGTAGAGCTGGGTATGGATGCTTAGTGCCTCACTTCTCTGTCTATACCT GCCCCATCTGAGCACCCATTGCTACCATCAGATCAACCTTTGATTTTACATCATATGTATTACCA
12611	34 TC ---	---	GTCTCAGGCCCTTCTCTGGCTGCAGAGCCGCTT[C/C]TCAAGTTGCCGTCTCCTGGCCTCTAG TCTTCCCTGCTCTCCGAGGTAGAGCTGGGTATGGATGCTTAGTGCCTCACTTCTCTGTCTATACCT GCCCCATCTGAGCACCCATTGCTCACCATCAGATCAACCTTTGATTTTACATCATATGTATTACCA
1172b	179 C T A	TGAAGAAATG GCTGATACCA	GTAAAGTGTGGTTAAACTAGGCAATTGGTTAAATCAATTTAAACACAGGCCCTAGAACAGTG ACACACCTCAAGCAATGATTATCCCTAGCACTCAGATTATGTTCTTGAAATACCATTTTCTGCTTTC AAAAGAAAGACATGAGGGCTTCTTGAAAGAAATGGCTGATACCAAG[C/C]TGCAGTGAAAAATGCA CATGATGAGCCTGGAAACATGTTGT
172a	17 C A ---	---	TGAACGTGTGGTTAAAC[C/A]TAGGCAATTGGTTAAATCAATTTAAACACAGGCCCTAGAACAGTG GTGACCACACCTCAAGCAATGATTATCCCTAGCACTCAGATTATGTTCTTGAAATACCATTTTCTGCT TTCAAAAGAAAGACATGAGGGCTTCTTGAAAGAAATGGCTGATACCAAGCTGAGTGAAAAATGCA CATGATGAGCCTGGAAACATGTTGT
77	35 G C A	GCAGATTGGA AGTGTGAAA	AGAGGCAGATTGGAAGTGTGAAAAAATGAAAGAA[G/C]AAGAAAAAGAGTCTAAATATTGCA AAATGTAAGTGTGCCCTCAACTGTTCTTTACCCACTTAATCTGCAATTTTGAAAACTAGATTGAAT TCCTTTGCAAAACCTTGCATCATGGATACCCGAGTTAACCGTTAATTAAGACATTAAACATGG CCTGGTG
1b	141 G A ---	---	TCCATGGTTGGTTGCTACTGACTTTGTAGCCTTACTGCCACTATGCATTGGAACATTCCTCATATTC CAACTAAGCAGGAGTGTTCACAATAAACACATAGGCTCTTTATCTCCTTCTTCAATTTTCTT TCAC[G/A]TTATCCCTCACCTGAACGCCCTTCTCCTCGTAGTGACATTTTAAATCCACTTTAC ACATTCGGACC
a 126 T C A	GGCTCTTTATT CTCCTTCTTTC	CGTTCAGGGTG AGGGAATAA	TCCATGGTTGGTTGCTACTGACTTTGTAGCCTTACTGCCACTATGCATTGGAACATTCCTCATATTC CAACTAAGCAGGAGTGTTCACAATAAACACATAGGCTCTTTATCTCCTTCTTCAATTTTCTT CTTTCAGGTTATCCCTCACCTGAACGCCCTTCTCCTCGTAGTGACATTTTAAATCCACTTTTACA CATTCGGACC
114 G C ACAGAAAAG	ACATACATAT CCATTATACA	GACCTTTCCTT TCCAGCC	GAAGGCAGGACTGTGTTTGGAGGACAAAAAGTAAATCTTTTATATCTTTATTTTAAATTTTATT TTTTTTCAGGCATATAGACATACATATCCATTATACACAGAAAAAG[G/C]GGGCTGGAAAAAGAAAG GTCAAGTGAGATTTCAGATATCTTAAATGCAAGGCTGACAAATTTGGGCTTGATT

NI-478	46	CT	GCATGCTGTG TTACTCTATTT TGTTTC	AAATGCCACAG GTGGCT	AAACCACTGCAACCTTCAAGCATGTCTGTGTTACTCTATTTGTTCTC/TAGCCACCTGTGGCATTTT CAAAATATGATAATCTCTGCCACCATCTGCTTTAAACACAAATAGAACTCTGGCAGCAAAATATAGC ATAAGCTTACTTCTAAATCAAAGGCTACCATCAGTACCTTAGCACATTTAAAAAATAAAACCAAC ACTGCCCA
NI-533	29	T	ATCACAGCAG AGTACCTTTCT	CCITCCAACCT CTACACAATCT	AGCCATCACAGCAGTACCTTTCTAACTT/CJATAAGATTGTGTAGAGGTTGGAAGGAGGACAGGA CTGTTCTGTTGGTATATGACCCTGTGTCCAGTTAATCCA
II-601b	112	T	A	---	TCACCTATCTCTTTTGTGGTGAGAACACTTAAATCTAAGATGATCAATTTCAAATAAAGATGG TAGTGAGCGAACAGAGAGGTTTCATTGACTCTCTAACTGAGTACTT/AJCAAAAACGACGAGGTGCT CACAGTCAGGAAGCAGGTGCTGAGTACAGGAT
-601a	74	CT	---	---	TCACCTATCTCTTTTGTGGTGAGAACACTTAAATCTAAGATGATCAATTTCAAATAAAGATGG TAGTGAGCT/GAACAGAGAGGTTTCATTGACTCTCTAACTGAGTACTCAAAAACGACGAGGTGCT CACAGTCAGGAAGCAGGTGCTGAGTACAGGAT
863	107	A	CTCCTTCACAA GCTCACCA	CTTCCCGGTAA GCCAAGT	AACAAAACAGACACCTCGGCTTCTCACCCAGTCCACATGGTGCCAAACAATCCCACATTCTCT ACATCTCTCCCACTGGGCTGCCCTCTTCAACCTCACCA/A/G/ACTTGGCTTACCGGGAAGCATAAA GCCAAGCAATTAGTCTTTTATTGCAACATGGTCTGGCTGCAATAC
19	36	G	ACTGCTTGCTT GTTGATTTAAT	TTATTCTAATC CCACATGACAG	ACTCACTGCTTGGCTTGTGATTTAATCAACCTAGCC[G/A]GCTGTCTGTGGGATTAGAATAAAATA AACACAAAATGAANAACACACGATTGCTAACAAGCAGATTCTTTTCAAGGCACACGTAAAGAT AATAACTTCAA
1	37	A	T	---	TGCATTCAATTATGCACCAATAATAACTTCTGTACATJAT/CATTATTGATTTTCAATATCACAAAAT TATGAGTGAGGATGATTGTTATCCCTATTTTACAGATGAGAACACTGAGACTTAGAAGAAATATCT TTCCCAAAGTCACAAAGTTAGTGACAGAGCCGGATTGCAATCCATCAACTTGAATCCAGAGAAAAT GTTCTGCATCACTGTACAACTGACTCTCTTTTCTCCCTTGAANAACAAGGC
1	70	G	C	AGGAACACCTA CAAAATGACTT	CTTCTGACCTGTTTGCAGTGGATACTGTTTGAAGGCTCTGTCTCAGTATCTGAAGTTTGTCTCC A/G/C/JAGAAGTCAATTTGTAGGTGTTCTCTGGGCTTTTGTACGTTTCCATTTCTCTAATACACTGC CGTCTTAAGGGAGGCTTGCAGAGCAATTTATCAGATGGCTGTTTGTGCACTCTGTGCACTGAAG
178	A	T	---	---	TTCATGCAGAAGGTCCATGATTTACAGAATCTCAAGGAAGAAAGGCCCTAGAGATGACACCAGAA ATGAGAGTGGCTTGTCTATGAAAATTGGACAGCATGTTCCAAGCAGAGGGAACAGCATGGAGAAGA AAAATCATACTCTATCCACGTGCAGAAACTGGCAATTAGTTTGTJATTTACTAAACACAAATGT TTAACITGGGGTCCACAAACAAGGATATGTTGGCAATGGTATTCTGTGATG
76	G	A	---	---	CTATGATTTCCATCTAGCAAAAGCAAGACTATTTGGATAAGTTTCAAAAAGATGAGAACAGGTCTCTA GAACCTCAG[G/A]ATCGAAAGGAAGTTCTATCTAGTCCATAGACCCTATCTCACTGACCCAAAAGGTA AAAAAATAAATAAAGTAAGAACCTTACATCAGATTGTGCATTTCTTATTTTGCCACCCTGTTTGT TAGGAA

WI-5791a	44	C G ---				CTATGATTCCATCTAGCAAAAGCAAGACTATTGGATAAGTTTC/GIACAAAAGATGAGAACAGGTC CTAGAACCTCAGGATCGAAAGGAAGTTTCATCTAGTCCATAGACCCTATCTCACTGACCCAAAAGGTA AAAAATAAAATAAAAGTAAAGAACTTACATCAGATTGTGCAATTTCTTATTTGCCACCCCTGTTGT TAGGAA
WI-5406c	120	C T ---				CACCTGCTGTTGTCCATGGTGCCACAGACTCTCCAGAAGAGCCACTTCCACAGATGCAACAGGCC TTTTGAAGGAGCCAGTTCTCAGCATGAGCCAGGATGTCAAGGTGAGAAAC[C/A]CCTATGAGCCAC ACTTCTCATTTCTTAGAATTTCTTGACTCTGTGAAGAGGAAGGAAGAAAGGAAAGAGAGGCAA GG
WI-5406b	118	C A A				CACCTGCTGTTGTCCATGGTGCCACAGACTCTCCAGAAGAGCCACTTCCACAGATGCAACAGGCC TTTTGAAGGAGCCAGTTCTCAGCATGAGCCAGGATGTCAAGGTGAGAAAC[C/A]CCTATGAGCCAC ACTTCTCATTTCTTAGAATTTCTTGACTCTGTGAAGAGGAAGGAAGAAAGGAAAGAGAGGCAA GG
WI-5406a	42	A G ---				CACCTGCTGTTGTCCATGGTGCCACAGACTCTCCAGAAGAGGJGJGCCACTTCCACAGATGCAACAG GCCTTTGAAGGAGCCAGTTCTCAGCATGAGCCAGGATGTCAAGGTGAGAAACCCCTATGAGCCAC ACTTCTCATTTCTTAGAATTTCTTGACTCTGTGAAGAGGAAGGAAGAAAGGAAAGAGAGGCAA GG
WI-5798	48	G C T G				CCATTCCCTTCTCCCTCCCTTATTCCTCTGTTTCTTTG[C/A]TTGAAAAATACTGGTT TTCTAACAGTGTGCTGGTATGGATACTATGTTATAACATGCATAGTTCTATATGGGTAICA
WI-5415	54	T A TTT				CCTGCTAATAATAATTTAAGCACGATTTGTCTTCATGAATTCATCTTTCAGTTT[A/J]TAGATCGGAT CATGAATTAGTCCAGGCTTTTAGTTGTAATCGAAATTGGA
WI-5437	41	C T G				TGTTTTAACCCAGGCAGACCTCCAGAGAAAAATCCAAGAG[C/T]CTTAAACCATATTTTGTGTTTA GAAACTCCTGTGGCCAAACCACCTTGTGATGTGAGTGAC
WI-5481b	131	A G C T G C A G T G C				AAGCCAAATTCACATTAGTTGATGAATTTGAAATTTTACAGTATCTAATGCATGGGCATCTGTTTCAAC TCTCTGTTTTCAAGAGGTAGTATATGCTGAAATCTATTTTGCATTTATGCTGCAGTCG[A/G]A ATACTGGAGCCTGGAAGTAAAGACTTGGCTATTTTTCACAATTA
WI-5481a	29	G A AATT				AAGCCAAATTCACATTAGTTGATGAATTTGAAATTTTACAGTATCTAATGCATGGGCATCTGTTTTC AACTCTCTGTTTTCAAGAGGTAGTATATGCTGAAATCTATTTTGCATTTATGCTGCAGTCGAA ATACTGGAGCCTGGAAGTAAAGACTTGGCTATTTTTCACAATTA
WI-5492	38	T C ---				TCATGAGTCTTCTTCAAGATGCTTGTAAAGTCCCA[T/C]CAAGAAAGGATGCCCATGGCCTAAT GAAGATGTACCTCCACCTTAGGATAATTTGCAGACCAA

I-5826	134 T C	---	---	TATTTTTTTTCTCAATTCCTGGAGCAGACCATGCTCTTTCTATTTTCATGCTTCACATTTATTTTTT TTTCACTTAGTTAAATGCTTTTCCCTTGATCTAGCAATGGCCAGTTTATACATATTTCTTAGT[C] TTTCAAAATTAATGCCACCATAGAAATAATTTCTAACCAACCAGCCAAACAGCCTCACTCTTCCTT CCTGGTGCTTTACTCTTTACAC
I-5546	40 C T A	CCCAATACITTT TTCAGGTGAA	CCTGTATTTTA GCAACATGGG	CCTTATAACCCCAATACITTTTCAGGTGAAAAAGGGAAAA[C/T]ACCCATGTTTGCTAAAAATACAGG AGTATAACAGCATGACATGTTAAGGGAATTACAAATGCTTGAGTGTAAATCTGATGTGGGAAATAT TAGAAAAATTAAGCGAGAGAGGCA
I-5552	97 C T	GGCACCAGCCT TTTTAGAGT	TGCACAAATTG CCCAGG	TGTTTGTCTGCACCTCCCAACAGTGGTCAATGAGCCCTCAAGGGTTTGTATTGAGCGGGTATGGGT GGGGCTATCGGCACCAGCCTTTTTAGAGT[C/T]CCTGGGCAATTTGTGCAC TAGTGT CAGA
I-5836b	161 C T	---	---	TAA GTTGATTTAAACACTCTGTGCCCTCAATTTTCTCACCTATAAAAAATAAGATAATAGTATCTAAAA AAAAAGAGAGAGAAATTAAGTGGATAGACATGAATAACTCTGATGATCTGTTGTATCCCTGAA TCCTGCAATATACACATGATTCAATGAT[C/T]CCATTTTGAAAAATTAAGCTTTTGAATTGTTTTTCCA ATG
I-5573	58 C T	GTTCAATAGG AGGTGGGA	TGAACAGTTGG AGAGTAATGTG TC	TCGGGTATTAGGATGCGTTCAACCTCGATGATGATGGCGTTTCATAAGGAGGTGGGA[C/T]GACAC ATTACTCTCCAACGTTCATCAGAACACTTCAACAGCG
I-5850b	134 G A	---	---	CAGGACCTTGGAGCCTTGCTGTTTGCTCTCCACCTCACTCTTTCTCTGCTGCCATGGGTGGAGC CTCTCAGGCTTCCCTCTATGCACGCTCTATCTTCTATATGGGCAATATCCAATGTCCCATTC[G/A] TTTTGGCCATTTCCCTGTATATCAACAGAGAGAGGCTGG
I-5850a	92 C T	---	---	CAGGACCTTGGAGCCTTGCTGTTTGCTCTCCACCTCACTCTTTCTCTGCTGCCATGGGTGGAGC CTCTCAGGCTTCCCTCTATGCA[C/T]GGGTCTATCTTCTATATGGGCAATATCCAATGTCCCATTCG TTTTGCCATTTCCCTGTATATCAACAGAGAGAGGCTGG
I-5612b	125 A T	CTATTAAATGA GCATCGTGTCA TTC	TTCTCTTGAGA AACCTAAAAC ACTG	TGCTGATTGACACATAGTTATCTGACAGTAATCAATCTAACATCACAATAATCTTATTTCTGCCTG TCACACTAATTTGCAAAGCATTCAATTGATTGACTATTAAATGAGCATCGTGTCTATT[C/A]TCAGTGT TTAGGTTTCTCAAGAGAAATTATGCTGTCTTCTCTGTAACCTCAAGTA
I-5612a	44 T A	---	---	TGCTGATTGACACATAGTTATCTGACAGTAATCAATCTAACAT[C/A]CACAATAATCTTATTTCTGC CTGTACACTAATTTGCAAAGCATTCAATTGATTGACTATTAAATGAGCATCGTGTCTTACACAGTGT TTAGGTTTCTCAAGAGAAATTATGCTGTCTTCTCTGTAACCTCAAGTA
I-5636	26 A C	GCCAAATTTTAT CCGCAATAAA	CATCGAGGACT TTGGGA	TGAGAGCCCAATTTTATCCGCAATAAA[C/T]TCCCAAGTCTCTGATGGAGGCAATTCAGAAATCGGG GCAGGGAGGCAGAGGTGAGACAGATGTGAAGAAC

VI-5865c	103	C G ---	---	---	TTAGAAACCTCCATTATTCTGCCATGGTACATCTTTTAAAGATCTTTTTTTCATTTATGCATTC ACTGACTCACTCACTGCTCTATCAAAAATTAAAC/G/AAATATTATATTTTATTTACAGAGGAA CTCAGAAGCCAGAAAAAATGACCAAGACACAGTCCAGTCTCCATCTTCAAAAGGTCACAGTCCCTTCA GAGAAGACAGACAACTAAATAAATTCACAG
VI-5865b	99	T A ---	---	---	TTAGAAACCTCCATTATTCTGCCATGGTACATCTTTTAAAGATCTTTTTTTCATTTATGCATTC ACTGACTCACTCACTGCTCTATCAAAAATTAAACAAATATTATTTTATTTACAGAGGAA CTCAGAAGCCAGAAAAAATGACCAAGACACAGTCCAGTCTCCATCTTCAAAAGGTCACAGTCCCTTCA GAGAAGACAGACAACTAAATAAATTCACAG
VI-5865	165	T A ---	---	---	TTAGAAACCTCCATTATTCTGCCATGGTACATCTTTTAAAGATCTTTTTTTCATTTATGCATTC ACTGACTCACTCACTGCTCTATCAAAAATTAAACAAATATTATTTTATTTACAGAGGAACTC AGAAGCCAGAAAAAATGACCAAGACACAGTAAACAGTAAACAGTCTTCAAAAGGTCACAGTCCCTTC AGAGAAGACAGACAACTAAATAAATTCACAG
VI-5874	76	T G	CATAGCATGG ATAATATTAT ACAGAAAAA	CCTAGTAAGTT TCAGTCATTTG ATATGT	CTCAGACATTCATTTTCATTAGTTGTTAAATTTTGTGTAATTTTCATAGCATGGAATAATATTACAGAA AAAAAATTT/GTACATATCAAAATGACTGAACTTACTAGTAGCAATTTGTTTGTCAATTTGCT CATGGAGCCGACGTTCCAGCTCTCAGTTTTTCCATC/A/TTTTTTTCATAATTTACTCTCTTTTCTGTC ACAATGTTCTGCTTCGTAATTTCAACTCICATTCGTCGATGGATGGTAGTCATAAAATATGGGTGATTC AGAAAAATAAGTAAATG
VI-5752	36	A T	TTTTCCATC	ATGAAAAA	TTAGCAGAAACAACAAAAATGTCACAACACTGCAGTAAAGAGTGTTCCTCCGATAAAATAC/G/C CATTAGGTATTAGATAAGCATCCCATAAACATTGTTGAAACGAAGCCGAGTTTTCGATTTCACACA GTTGCTGTTTTAACCTCTCTAAATCCCGATAAATAGCCATTAGGTATTAGATAAGC/G/A/TCCACGAA CATTGTTGAAACGAAGCCACGTTTTCCGATTTCACACAGTTAGTTGCTGTT
VI-5760b	61	C G ---	---	---	TTAGCAGAAACAACAAAAATGTCACAACACTGCAGTAAAGAGTGTTCCTCCGATAAAATACCCAT TAGGTATTAGATAAGCATCCCATAAACATTGTTGAAACGAAGCCGAGTTTTCGATTTCACACAGTT GTCTGTTTTAACCTCTCTAAATCCCGATAAATAGCCATTAGGTATTAGATAAGC/G/A/TCCACGAA ACATTGTTGAAACGAAGCCACGTTTTCCGATTTCACACAGTTAGTTGCTGTT
VI-5760	187	G A ---	---	---	AAATCTGGCCTTTTCTCTTAGGAGGAGATTTCTCACCATGGGAATCTTG/A/G/TGCAAGTTAGAT CCCACCTCACTATTGAGAAGCTAAAGTGAAGACTACTCATTTCTCAGTCTTCTTCTGCTG
VI-5944	52	A G	TTCTCACCATG GGAATCTTG	GGTGGGATCT AACTTGCA	GAGTTTAATGAATCCTGTTCCCTCCTAAAAACCTCCTGTTCCCTCCCACTTCACATTCACAGATATT CTTTCATGGGTTATTTGCCCAAGTCATGAGGAGATGCATGTAATTGATCATTTTCAAGAGTGTGAG TAATGCTTGGTA/C/T/TGCTCTGTGCCGTATCTGCTCCCAATCACCATTCCACTTTTATTCCTATTAT GCTGAATGAAACGGTTATATTACAG
NI-5967b	148	C T ---	---	---	

VI-5967	165	CT	---				GAGTTAATGAATCCTGTTCCCTCCTAAAAACCTCCTGTTCCCTCAACTTCCCTCACTTACATTCAGCAGATATTCTTCATGGGTTATTTGCCCAAGTCATGAGGAGATGATGTAATTTGTGATCATTTCAAGAGTGTGAGTAATGCTTGGTACTTGTCTGTGCGGTATC/TJTGCTCCAATCACCCATTCACACTTTATTCCTATTATGCTGAATGAACGGTTATATTACAG
VI-6093	53	GC	---				GGTAAGATCCAGAGCCACAGGTGAACCTGCCGGTATTGAAGTCTTTGGGCA[G/C]GTCTGTAATGATCTGACTTCTCCAGAACCCCTCTCTCTGGAAGTTCCAACTGTCAGCTGAGCCCATTTGAGGAGGCATTTGAACCAAAACCCAGCGACACTGCTGACATTTGACTTTACGCAAAACCTTGATTGACGGTGACACACCATGCTTCGAGAAGGAATGAGG
VI-6141	80	TC	AGGTACTT	AGCATCTACA	CTTCTTAATT	TGAAAACCCCA	GACTCTGTCTCAAGAAAAAAAATTGAAAATTGAATAATTAAAGCAGCTTCTTAATTAAGCATCTACAAGGTACTTA[T/C]CACTGTTCTGGGTTTCAATCCTCTCACCTTTTAGACTTCAGGAAATTCAGAAAAATGCATGAAAAACAGGATTGTTACATGCAGAGAAATAGGGGAGATAAAATTTGCTTTTCTC
VI-6450	45	TG	TGTCACA	ATTCTATATCT	CCAATGACTT	TTGTTTGAAT	ATAGGACAGTTTTTCTTCCAATGACTTATTCTATATCTTGTACAT/TGJAGAAGTACCACACATTTCAACAAGAGCCAGGCTATGCCAGGGTGGGATTATTTTACGGTCAATGTAATATGCATGTAAGACTATTTTACTGGCCTCTTTTATGCATAAAACAAGTATTGGTCTATTCAACAAACATGTGTCAATACAGCAGTTGTCATGTCCCTCTGGTACTAGAAATAGTCTTTATAGAATATGTGGTTAGAAATAAGCCACAATAATCTATAAAACAACA[C/T]AAGGAACGAGGCTCAAAAGTGGAACAAACGGCCTTAGTTTCTAAGTGAAGACTAAGACGATATAGGAAATATAATCCGTGACCTCTTA
VI-6461	88	CT	---			---	GAAACTATCCTTTAGTGGTGCCACATTTTCTATTCTGATTCTTTGGTCACACAGGGACTTTCTGGGCTATGAAATAGTCTTATTCAGTGAAGTATGTAATCAATAAAGACATGCAAAACCTTTTACAGTCTTGTCTGG[G/A]AATATCTCACAAAATTAATTATAAATGGCATGCGACTTTCTGATTAGCCTGACAGGATTGTCCTTT
VI-7466c	141	GA	TTTGCTGG	TTTTCACAGTC	TTTTCACAGTC	AGTCGCATGCC	GAAACTATCCTTTAGTGGTGCCACATTTTCTATTCTGATTCTTTGGTCACACAGGGACTTTCTGGGCTATGAAATAGTCTTATTCAGTGAAGTATGTAATCAATAAAGACATGCAAAACCTTTTACAGTCTTTGTCTCTGGGAATATCTCACAAAATTAATTATAAATGGCATGCGACTTTCTGATTAGCCTGACAGGATGTTCTCTTT
NI-7466b	80	TC	GTC	CTATGAAATA	GACTTCTGGG	TGCTTTTATG	TGCTTTTAAAAATAACAATGACCACCACCTGACACCATAGTCTGCTCCATTTGCCACGCTTCTCTCAGTAGAATAAGACAGGACTTTGCTGGTGTCTATCTC/AJTTCTCTCAGAAAGACACTTGGCCCCCTCATAGGCAATCCATAGATATTGTTGAATGAATGTGCTTTTGCATATTGATTCCTACATTTGATACATATCTCAGGAGGGACATTTGGCCTAT
NI-9814	104	CA	---			---	CCTCTAACAAGAAAAACCTTGACTTCTCAACTCAAAATACCCTTCTCTAATAATTJ/A/GJAGTAACCAAAATATTCCTTCAAAATAAATTAATCTTTTAAATTAGAAAGAAGCAACAGTGTAGAGGTAGTACATTCA
NI-9720b	55	AG	---			---	CCACC

II-9720a	47	A G ---			CCTCTAACAAAGAAACCTTGACTTCCTCAACTCAAATACCCCTTCTCTA/GIATAATTTAAGTAACCA AAATATTCCTTCAAATAAATAATCTTTTAATAGAAGCAACAGTGTTAGAGGTAGTACATTCA CCACC
II-9825	123	A T ---			CAGGCTCTAAGGCAGGATGGCTTATGAGATACTTTGCATTGTCTGTCTGCACACCTTGAATCTGCC TGCTGGCTCCCTTACTTTACCTCTCTGTGATGTCAGATGAAGGCTCAGGGTCTTATGAGGATTAG TAAGATCTCTTTCTAAGACAGGAGAGATTATTTACAAGAAGAACTCACCAGGGTTTGTGTTGCATT TAAGAAATGCCAGTCTTTGTCTGCATCATCTTGAACATTAATCCACATG
II-9748	74	C G ---			CCACTTCAGTAAATCAATTTGTAGCACCTTATTTCTAAAGATTCTAAATTTTATATGTTTACCCTTT GTCATTG/GTTCAGACCAAGTACATGTTTTCACACAGCCATCTTTCTTCTGGAACTTTTCAGAAAT TACAGTTATGATGTCCTTTTATATCCCA
VI-9943	91	T C ---			TGAGGCTATGATTGCAGATTGTAGTGACTAATACTTATTAAAGCAATTTCAATGTTGTGGCACTGTT CGTTGTGTTTATATCCATCTTC/TGJATTTTAAATTTCTACTGAGCAGAAAAAATAATGTATACATT AACCTTTGCTCCCTATTGTACCTTTTAAATGCAATTCACACCTTCCTTTTGTCAATTAGGGA
VI-9891	39	T C ---			AGGGCCCTCACAGATCCGTGAGCTCAACACTGCCTCCTT/CJAGTGAGCCTGTGAACCCACCCCAAGAC GGCTGGTCATCAGTGTCATCCTCTCTTCCGGACAATATCTTTAAAGAAAAAAGAGTGT CTTTGAATGTATCCATTTATCCCAATAATCTTGTGTTAAATAATCCCTTATAGGCCAAATCCAAAT GTGCTGAAATATCTGCCAAGCATGTCTTCTACACAAAGGGATTGCAAA
VI-9897b	84	CT ---			CTCAGAAATTTACAGATCTTCCCAATGTGATGTTCTTCTCAACATCCTATTTTCCCTCAAAC ATTTATCTAGCCTGTATG/JAAGTCATCCAGTGAGGCTGTTTATTCATCTATGTGAAATTTTGAGCA ACCCACAGGATTAGAATTAGCATCTTATTTTGTACCCACATTA
VI-9897a	83	AT ---			CTCAGAAATTTACAGATCTTCCCAATGTGATGTTCTTCTCAACATCCTATTTTCCCTCAAAC ATTTATCTAGCCTGTATG/JAAGTCATCCAGTGAGGCTGTTTATTCATCTATGTGAAATTTTGAGCA ACCCACAGGATTAGAATTAGCATCTTATTTTGTACCCACATTA
VI-9935b	115	CA ---			AGATAACCCCTGGAAAACTAGAAGAAATTAATAACGTGTTGCACACCTCACCAGAACTGGAAGGAGT CTGACTGTGTTCTTATGGGTGCTTGGACTGGCAGGGGGAGTTCAGACA/C/JAGCCAAGAAAAAGCC TGATATTAGAGGCACCTTGCAATA
VI-9935a	42	CT ---			AGATAACCCCTGGAAAACTAGAAGAAATTAATAACGTGTTGCA/C/JACCTCACCAGAACTGGAAGG AGCTGACTGTGTTCTTATGGGTGCTTGGACTGGCAGGGGGAGTTCAGACACAGCCCAAGAAAAAGCC TGATATTAGAGGCACCTTGCAATA
NI-9983	146	CT ---			CCTGTTAGTGCCAGAGTCCATGCTCTTGGCCACAATGTTAGGCTGCCCTCCCATTTCTTTGCTTGA TTCCCCAAACCCCAAGGTTCTACCCCAATCTGATCAAAATGCTGACTAGGTGCTGAGGTTGAGGTTAA AGCATTATGA/C/JAGACACAAAGACAAAGAGGTTAAAGTTGCTGCTCCTCAAGAGAGAGACATAA AAACAAATGGATCTGGAACCTAAGTAAGGCTTCGAGGAGGAGGTTGAGCAAGG

NI-10019	139	A	T	ATCT	TGATGTAATGC TATGTAGCAA	TTGATTACTGT GCTPAGGGGA	ATATCAGTGGTTGAGTATACAGCAATCTATTTTGTTTATTATGTGTGCTATAAATCAATGTTCTTA ACATTCAAATAAGATCTTTTGGCTTCTCTGCTCAGATGCTTTCAATGATGTAATGCTATGTAGCAAAT CTAATTTCCCTTAAGCACAGTAATCAAGGCCCTTCTACCCCA
NI-10020b	122	T	A	TTT	GGGAGAAAAG AAATCATGAC	GACTGTTAATT TATTTAATCAT TAGTCTGG	TTACTTCATTGTCATCTTGACTCGTATTAAATAAATTATGTTAACTGGCTCTGAAAAGAATTTAGGC ATGCATAGAGAAATAGCAGTGTTTTATTGGCGAGAAAAGAAATCATGACTTTT[T/A]AAAAATACC AGACTAATGATTAAATAAATAAACAGTCTAGGGTTCCGGAAGTGGCCTAAAGCACGTAAGTAGCCCT CCTTAGA
NI-10020a	39	T	C	ATAAATT	TGTCATCTTGA CTCGTATTAA	AAATTCCTTTTC AGAGCCAGTTA AC	TTACTTCATTGTCATCTTGACTCGTATTAAATAAATTATGTTAACTGGCTCTGAAAAGAATTTA GGCATGCATAGAGAAATAGCAGTGTTTTATTGGCGAGAAAAGAAATCATGACTTTTAAAAATACC AGACTAATGATTAAATAAATAAACAGTCTAGGGTTCCGGAAGTGGCCTAAAGCACGTAAGTAGCCCT CCTTAGA
WI-10064b	170	C	T	TTTACATG	CCCTTAGATAT ATTGTGATTGT	ACCTTTCTGAA GCCAGATTTC	TCTGAGTCTTTCTGAGACACTTGCCATGGTCAAGGGTAGCAGGATCAGGGAAGGCATTATAATAAT ATAATTTGCAGAGCATCTCTCTCTATGCACAGATATTGTGGTGACACTCTGTTTATCCAGTATCC CTACTCCTTTAGATATATTGTGATTGTTTACATG[C/T]GAAATCTGGCTTCAGAAAGGTTAGGTGTT T
WI-10064a	54	C	A	CAGGGAAGG	GTAGCAGGAT CAGGGAAGG	GAGATGCTCTG CAAATTATATT TATTAT	TCTGAGTCTTTCTGAGACACTTGCCATGGTCAAGGGTAGCAGGATCAGGGAAGG[C/A]ATTATAATA AATATAATTGCAGAGCATCTCTCTCTATGCACAGATATTGTGGTGACACTCTGTTTATCCAGTA TCCCTACTCCTTTAGATATATTGTGATTGTTTACATGCGAAATCTGGCTTCAGAAAGGTTAGGTGTT T
WI-10289	29	T	C	CAAACCTCT	TCTCTGTCCC CAAACCTCT	ATTCTGTGTG ATTGAATGGAA TTAA	CCAGGGATTCTCTGTCTCCCAAACCTCTA[T/C]TTAAATCCATTCAATACAACAAGAAATTTATAGAA TATGCACCACATGCCACAAGACACCCCTTATATTAGT
WI-1319	40	A	T	ATTCTTT	TGGCACTTAG AACATAGTTT	GCCACACACC CTATGGT	AAGAAAATCCTTGTGGCACTTAGAACATAGTTTATCTTTA/TJACCATAGGGGTGTGGCTTATCT TTTACCTGGCATGGCTTAGTCTCTGTTTATAATTTGGTATCTTTTGGCACAAGAGTCTGTCTGAC AGCTTTATGATCTCTATTTTAAACATTAAACACTGGTCAAGTGTGTTTAAACTGTTGAACCTGCAGC
WI-10316	104	T	C	CTCTT	CTGTTGATTTT CTACCTCTATT	GCCTTGGAAATG TATCCAAAAGT TT	AGCAACGTGTACAACCTTAGTGAGGTGTAATCAGAAGCATCTATATTACCAGTCACCCCTG GACTATAGTCTGTTGATTTTCTACCTCTATTCTCTTA[T/C]TAAACTTTTGGATACATTTCCAAAGCAT CATGGTCACTTCCAGTTATGAAAGGATGTTTAAAGCCAGCC
WI-2572	61	C	T	---	---	---	AGTGAGTTGTGCACAAATTTGGAGACATTTCTGTGACCCCAACTTAAACACATCTCTCCACAC[C/T]AC AAAGTTAACACTTCAGTTACCAGGTGATGATTGAGCAGA

VI-10368	31 C T	TGAAGCAACC AGGCTTGTT	CAAGATATTAT ATTTATTCTCT AAGAGGGG	GAGGAAGTGCCTGAAGCAACCAGGCTTGTTGCTACCCCTCTTAGAGAATAAATAATATCTT GAGATAGGGAGGAGAGCCTGAGGACAGTCTGGGTTTGTCTTACCCACCTGGAAGCAGAATATCC TTCAAAGCTTTTCCAGTGAGTCATGTTGCTGCTAAACTATATGACCCTGATGGATTGCCCTTTCAGGG T
VI-10391	32 A G	CTGTCTCAGGT ATGACTCCCA	GGGAGTTAGGA GTCAAGAAGTT GA	CCTCCGTTCTCTGTCTCAGGTATGACTCCCAAGTCAAACTCTTGACTCCTAACTCCCATCTCGGTG TCTGCTTCCAGGGGACGTCATCTGACACAGCCTTTTGCTTGCTGTGACAAACAGAACATTCGAGAAG TGATGCTGCGTGACCTCCAGGATA
NI-10567c	146 A C	GTTACCCAGA GTCTTCTAATA	TGCCGCTTCCA GTAGCT	AGCGATGAAATTTATATGTTATGCCGTGACTAGCGGGTGCTCAATAAATAATATTCTTTTTCATATT TTCCAAATTAATACTAGAAATTTTACCACACAGAAATTTTAAACATTTTAAGTTACCCAGAGTCTT CTAATAGCAAACJAGCTACTGGAAGCGGCAAGAAATTTAACCCCT
NI-10567b	82 A C	---	---	AGCGATGAAATTTATATGTTATGCCGTGACTAGCGGGTGCTCAATAAATAATATTCTTTTTCATATT TTCCAAATTAATAJACJTAGAAATTTTACCACACAGAAATTTTAAACATTTTAAGTTACCCAGAG TCTTCTAATAGCAAAAGCTACTGGAAGCGGCAAGAAATTTAACCCCT
NI-10567a	60 T C	GGGTGCTCAAT AAATATTAT CTTTT	AAATTCIGTT GGTGAAATTC TAG	AGCGATGAAATTTATATGTTATGCCGTGACTAGCGGGTGCTCAATAAATAATATTCTTTTTCATATT ATTTTCCAAATTAATACTAGAAATTTTACCACACAGAAATTTTAAACATTTTAAGTTACCCAGAGT CTTCTAATAGCAAAAGCTACTGGAAGCGGCAAGAAATTTAACCCCT
NI-11153b	84 C G	CAAACTTCAA ATTGCTTTAAG TACTTTA	AAATCCAACA GTCAAGGTCTT C	CGTTGGGAATTTCTATCTCACCTAAATATGCGTGATTAATAATATACATTTTAAACAACTTCAAA TTGCTTTAAGTACTTTACJGGAAGACCTTGACTGTGGATTTTGAGTTTTTCTTTTCTTTAATA AAACATGCATATTTAAGTTGTGACGCAAGATGTACTTATATGTTAATATCTGATATCAGCATCCCTT TATGTATT
NI-11153a	33 C A	GGGAATATTC TATCTCACCTA AATTATG	GCAATTTGAAG TTTGTTAAAT GTAT	CGTTGGGAATTTCTATCTCACCTAAATATGCGTGATTAATAATATACATTTTAAACAACTTCAAA AAATGCTTTAAGTACTTTACGAGACCTTGACTGTGGATTTTGAGTTTTTCTTTTCTTTAATA AAACATGCATATTTAAGTTGTGACGCAAGATGTACTTATATGTTAATATCTGATATCAGCATCCCTT TATGTATT
NI-2616	125 T C	CACAAATGTA ACAAGAATTG ATCC	CCATGGCTGTA GTCCAGT	GTTGTAAACTCCAGTATCATTTCCCTCAACCCAGCTTAAATCACAATCACATTTTCTTTCTGTA GAGCTCAAACTCAGTCTGAATGAAATTTGCTGCACAAATGTAACAGAAATGATCCTATTCJACTGGG ACTACAGCCATGGAGAAAAGCAATGTAGTCAGCAAAATGTTAAG
NI-11163	58 C T	CAAGTGAATT ATGACCAAAA TGAGA	TGCTCTTTCA TTTGAGGTTTT T	TGACTCAAGGAAACACACACAAAAGTTTCAACCAAGTGAATATGACCAAAATGAGA[C/T]AAAT TTGTTAAAAAAAACCTCAAATGAAAGAGACAAATATAGTTCAAAGATTCAGGTTCAATATTTGT
WI-10656	59 T G	---	---	ACCTACAAAATAGGGATAGTCATGGTGTGGCAGACTTTTCTTTTCTTTTCTTTTGTGJCTCTTA GAATCCATTTTGTCTTTTGGCCAGCATTCCTCTCCCATATTTTAAAGGAGAGAAATTCACCTTTTCT CTGTTGGATGATCACAGGTTCTGCTCTTCCCAATCCAGAGGAGGACTATTACCCCATGGGGTCAAT AGAGAGGATTAAACAGGGGTGATGCCCTGCAATGGGAATATTTGAAAACC

II-1169b	154	T G T T T T T	TTAACCAAGA GTTTTTCATTC	CTAACTTAAAA ATCCTCATTC AAATATAA	CAGCATAGAGGCTGTAGTGACCTTGAGTTAGATTCTCTATCGAGAAAGCAATAAGTGAAAGTAA CTGACTTGAAAAAATAAATAAAGCCTAAAGTAGTGCTTTTAAACCAAGAGTTTTTCATCTTTT TTTAAAAAAGAGCAGACACAT/GJTATCATGTGTTCTGATAAATTTTTTATATTTTGAATGAGGATT TTTAAGTTAGCAT
II-1169a	95	A G T T G A A A A A	AATAAGTGAA AGTAACTGAC	AAACTCTTGGT TAAAAAGCAC TACTT	CAGCATAGAGGCTGTAGTGACCTTGAGTTAGATTCTCTATCGAGAAAGCAATAAGTGAAAGTAA CTGACTTGAAAAAATAAATAAAGCCT/GJAAGTAGTGCTTTTAAACCAAGAGTTTTTCATCTT TTTTTTAAAAAAGAGCAGACATTTTATCATGTGTTCTGATAAATTTTTTATATTTTGAATGAGGAT TTTAAGTTAGCAT
II-10685	25	A G ---		---	CAAGTCTGGACCTTGGATAGGTG/GJACCGGCTGAAGGTTGGACAGTTGGTTAGGTTGGAG ACCAAAATTCAGTCATCCTGTATAATAGATCTTGTCTTTTGGGTTTACCACCTAGGGTCACTAAAG AGAGATGGGAGACAGTCTCAATCTGTCTAAATAATCCAAAATAGCCATGGGTTGGACAAAATAC AAGGTTAGTGCTCTCTAACTTTAAATGGGCATA
II-10686	133	C T A A G G	TGCCCCGTGTC	CAATCTCTAAA TTTATGTGTAG ACACA	AATAACCTGTGGCACATAAGGCAATACTGAGCCCCATACAGAGTGTTTTATGTTAATATTATGAAA AAAGTCAAGAGAACAGATGATATAGTTCTGTAGAACTACTTGAATCTGATGCCCTGTCCAAGG C/TJTGCTACACATGAATTTAGAGATTGAATGAAATGGCAAAATTCAGAAAAGGG
VI-11175	77	T A A	AAATGATTCTT TCTGCTCAAAG	CTGTTCTCACA TTCTTTTTGAA AA	GGTAGGATGATTCTAGAAATGCCACTTACAGCCACTGAAATATATGCCCTCCCAATGATCTTTCTG CTCAAAGAGT/AJTTTTTAAAGTTATCTACTTATTTATATCTGCTTTTTCAAAAAGAAATGTGAGA ACAGTACAAAATGTGTTTCAGTATAGCAAAATTAATAATTAAGTAAGAAAAAGAAAGCCCAATT TGCGC
VI-10694	144	A G T A T G A G T T T C	TGCAAAATGCTT TATGAGTTTTC	GGCATTTTGT AAGGAGGAAA	TAGAGAGGCTTTTCAGTTTCAGGTTGGAGGGTGGTGAGGTGAGATTCACCTTCTAGAAGCACTGGC TATGTACAGAAAGATAAACTCTGAGAAAGAACTCAGTTCTAAAGTTTCAGTCTTTGCAAAATGCTTTA TGAGTTTTTC/GJTTCCTCTTTACAAAATGCCATCAATTCCTCAAGGAAAAAAGGCTTTCT T
VI-2716	23	T C C	AGAAAAACAG	TCTCTTTCTC TCTTGTGTCA TTC	GTGAATTCATCCAGAAAAACAGCT/C/GAATGACAACAAGAGAGAAAAAGAGAAATAAAGGTTTTGT ATACGACAAGTGCTCAAGCAATTTCTCTGTCCAGTGCATGGAGCAGTG
VI-10719	115	T C G C C C A T T C T A G	TGACTCTCAAG GCCATTCTAG	GCACTGCCAGC AGCC	CAGGCCAACTCTGTCAATTAAGTGTTTTAGAACAGACACCTCAGTCACACAAAGTTCTCTGTGTGT GCCACCATAAACAGTTACTGGAGGATGACTCTCAAGGCCATTCAGT/CJGGCTGCTGGCAGTGCTT TTCCAGCCTGCTGCCCATAACTAA
VI-10721	40	A G C T T G C C A	TGGCTCTGCTA	GAAACTCCAC ATAAATAAT CTCA	CAACCAATTCAGATTTAATTTTTGGCTCTGCTACTTGCCA/GJATGAGATTTATTTATGTGGAGTT TCTGAAGATCCCATGGTAAATAGTATCCCTCTCCCTGCTTAGGTTTGAAGAAGTTGAA

VI-1204b	88	T C ---			GCACACGAAATTGATTAATATTGGCTGACCTTTGAGGAGGAGAACACAGGGAGTTGAGGTAAAGGGTG AAAAGAAAAACCTTACACCTTTT/CJATTTTAAAGTAACATAAAGGTATTATGTACATTTTAAAGTGAT CAAAAAATTTTAAATTGGGAAGAGATTTAGTGAATCAGAAAAATAAGTCTGAGGAAAATTATTTCAGAAG GCAACATC
VI-1204a	80	T A AACTT	GTAAAAGGG TGAAAAGAAA	TGATCACTTAA AATGTACATAA TACCTTT	GCACACGAAATTGATTAATATTGGCTGACCTTTGAGGAGGAGAACACAGGGAGTTGAGGTAAAGGGTG AAAAGAAAAACCTTT/AJCACCTTTTATTTTAAAGTAACATAAAGGTATTATGTACATTTTAAAGTGAT CAAAAAATTTTAAATTGGGAAGAGATTTAGTGAATCAGAAAAATAAGTCTGAGGAAAATTATTTCAGAAG GCAACATC
VI-10732	80	C A ATTGGTTCACT	GCTGTGCTTC ATTGGTTCACT	AAGAACAAATG CATAACAGAA CTTTAA	ACATGTATTTCCTTATAGTGGTCAGCCTTCTTACCCCAAGAATATCCCTGGTTTATTGCTGTGCTTC ATTGGTTCACT/CJTTAAAGTTCTGTATGCAATTGTTCTTGAGTCCACATAGGTGTTAATCAATTCCA CACCACCTGTTTAAACTGTC
VI-11206	127	A T ACTC	GGTTGTGTTTT CTGTATGTACA		TAGCTTTTCTTTGTACGAGTGTCTATAAAGAAATTACCACCTCTGTACACATTTGTAAAGATAGCACAG AGAGAAAGCATTACAGGGCACAGCACAAACATGAGGTGTGTTTCTGTATGTACAACTC/A/TJCCAA CCATTAGGATTGTCACTCTCATATATAGACAGAAATTCAGTGTGGTGTGATTGTAATTCACACATGGA ATAAGTCTA
VI-11215	68	C T ---			GAAAAAAGTTTTAATTGGATTGCTTAGTTTGTCTTAAATTTGACCTACTTTCAGATTTATTTTAGT [C/T]ATTTTTTCTATAATATTTTCTGTAGTGTAGGATTTTCTATAAATTAAGGAAACAGATATTT ACACAGAGAAGACAGGATTGCTTGAATTAGTATAACATTCITTTATCCAAAGCCCATTCACCATGT TTT
VI-1219b	89	G A AGAGAA	GAGAGAATAT TCCAAAAAGT	GGTCTCTAAT TTTTCTACACT TTCT	ATGAAAAATGCATTAGAAATTTGGAGGATAAAATTTGAGAGAATATTCAAAAAGTAGAGAAAA GAGACAAAGAGATGAAAAATAGGA[G/A]AGAAAGTGTAGAAAAATTAGAGGACCATTCTATACAG TCCAATATTTGAATAATAGTTATTCAAAAAAAGAGGCAAGAAAAATGAAGGGGAGAAAAATCCAC AAAACATCTC
II-1219a	18	G A ---			ATGAAAAATGCATTAGAA[G/A]AATTGGAGGATAAAATTTGAGAGAATATTCAAAAAGTAGAGAA AAAGAGACAAAGAGATGAAAAATAGGAGAGAAAGTGTAGAAAAATTAGAGGACCATTCTATACAG TCCAATATTTGAATAATAGTTATTCAAAAAAAGAGGCAAGAAAAATGAAGGGGAGAAAAATCCAC AAAACATCTC
II-1222b	136	G A GGCTGG	CATACCACTGC AGCTGG	CCTGGTAGCCA AGTTGTGA	AGCCACAGTGGGAATCATTTACACTACCGAAATCAGCAAAATGCTAAAAATGGGGCTTTGGATTTTGT TTTTGTTTTTCCATAGACCCACCGTTGAACCTATTGTTAAACATTTACCAGCATACCCTGCGGCTG G[G/A]TCACAACCTTGGCTACCAGGAGAACCTGACACAGACTTCGTAATTGCTTTTCACAGGCTACTGG AAAGCC

1222a	25	C T A	GCCACAGTGG AATCATTTAC	TTTTAGCATTT GCTGATTTCG	AGCCACAGTGAATCATTTACACTA/C/TJCGAAATCAGCAAAATGCTAAATTTGGGCTTTGGATTTT TGTTTTTTGTTTTCCATAGACCCACCGTTGAACATATTGTTAAACATTTACCAGCATACCAGTGGG CTGGTCACAACCTGGCTACCAGGAGAACCTGACACAGACTTCGTAATTCGTTTTCACAGGCTACTGGA AAGCC
1-10775	39	C T C	TTATGCGCATA TTAATTCATTA CACTC	CTAGATGTATT TGCTAAGAAA ATATGATG	TTGCAAGTTTGTATGCGCATATTAAATTCATTACACTC/JACATCATATTTTCTTAGCAATACA TCTAGACACCTGGCAGTCAGTAAGGGATATTCCTGGCAGGATAATCATTTGTTATCATTTAGACATTGCA GGAACCAACCATATGGATGGATAAAATGTTGTTTAAATGAAGCAAGCAATTA TTGCATGCATTTATACGAAAGGAATAAATATCTCTTATAGTTGAATTTTAAAGTAAAAATAAA GTTATACATATAATACAAAAGTTGTAAGTATAGTAACAAATGAATAGAAAATGTCAGTGGTTGC TAGTACAGGAATCAAATTTGGACTATGAACA/A/CJGACATAGTTGCTAAGGATATTCACACAAATTAT TTCATGA
1-11226	165	A C ---	---	---	CAGTGGCTGGCTACTGACAAAACGTAACTCGTGGCAGGTGGCAAGGGAGGAACATTTACAG/A/GJG TCCATCTGTGATGTCACAGCAGGCCAGGAAGGTTGATCTGGAG TGGGACACACTGCTCTAGACC/C/JTCCCAGGGTCCCTCAAAGGTGGGTAGAGGCCCTACTGCCCT GCCCTGGGACGACAGGCGATCAGGGCCCTAGTCCCTCTGGGACAGTGAAGGGCCACCACC ACAGAAAAATGCCTAGGTCTTGTAGCAAGAGAGAAAGCATCTTCATGGCAGGAATTC/JTCATTT CTGTGTTTCTTAGGGTTTGTGGCTGGCCATCAGTTCAACTCAGCCCTGTCCCTGTATCCAGCAACATT TCCGTAACCTACCCCTCTAGAAGTCATGCAAAAGAGAAATGATGA GGACCAAAACAGAATTACTTGGCA/T/CJAGGGTTTCTTAAACCTATTTCTGCAGAACATTAGTAAAGT TTAAATAAGGATCAGGCTACCAGGAATACAGTTAGGGAACATGTGGATGAATATTTCTTTAGTAGAG GACTTCTAAAAGGCTATAATATTTGGATACATTAGGCTCATTTATGAATCTCAAAAGGAGCATGTAGT AGGGCATATCTAA
1-10828	23	T C ---	---	---	TATGCCITCCCAACGAGCCATCCACGCTGCTCTTAGCACAAAAAATAGAATACATCTCTGAATG GGCACATTAATCTGCAGGCTCTCC/G/CJTTCCTAAGTCACCTGCAGTTAGGTCTGCAGACACTGTGTA TACCATATAATCTGATTTCTGAGCAGGAGGGGAGGAGATGAGAGAGGGCTGCTCCGTGAAATAC TAGTTCGG
1-10832	91	G C	CATTAACTCTGC AGGCTCTCC	A	GATTTGAGTATTATCAAAATGCCCCAAGACCATTAAACAGATTTAATAGTTAAAGCCAAAACATA AAGAATTAAGTGTCAAAAGTGTGTTAA/T/CJCTTAATACCAATTTATAGGGCCACCATTAACTT CTGAAGAAAGGTCAGCATATGCAACTAAATTTCTAAAGTCCAGT GGATGATGTTCTGTGGTCCCTTTAT/CJAAAGCCCTCTTGCAATCCCAATGTGTAATTTATTCT TGGTATTTCTCGCTTACCCATAGTACCTGTCAAGTGTCCACCCT
1-10834	96	C T	GTGTTAAT	AG	
1-2287	24	T C ---	---	---	

VI-2296	81 A	G	TGTTACTTTGA TTCTTTGCTCT	GCAATCACAC AGCTAACTGG	TGGAGGGTTAGAAATGCAGGTGGCATCCTAGAAAGGCTCAGGCTTTAGAATAAGTTGTTACTTTGA TTCTTTGCTCTGAC[A/G]CCAGTTAGCTGTGATTTGCAGAAAGTTACATTTGTTTGTG
VI-2300	77 G	T	GGCACAGAAG CCAGTCATAC	GGTTGGGTCAA TTTTAAAGCA	TTTCATCATGCTGCTCTCCCTGGAAATTTCTTTATTTGAGCGGGCAGGTGGTAGGCACAGAAAGC CAGTCATAC[G/T]TCTTTAAATTTGACCCCAACCATTAAGAAATAGCATTTCA
VI-2371	55 G	T	GTCTTGTTCTT CCAGCTTCT	CAAAGATTGAC AGCCACCAC	CAATGATCCCCCAACATTTCCAGGGAAGGCTGGTCTTGTCTTCCAGCTTCT[G/T]GTGGTGGCT GTCAATCTTTGACATTCCTGTCTTGACGCTGTATAATCCAATCCTTGCCCTCCAGCTTTACATGATGT TCTCTCCGTGTCTGTG
VI-2395	122 A	C	GAACATATTT GTAGAAAAAT TACTATCCAA	TCACCTTTTCTA TTTATTCTGAA TTCA	GGGGGCACAAATTTAGCTACAGTGCATATTTAAAGATAACATAGAATATCATATAACTTGGTTTAC TGAAATCTGAAAACTTAGGATGAGTGAACATATTTGTAGAAAAATTAATCTATCCAA[A/C]CTGAATTC AGAATAAATAGAAAGGTGAATCATCTTATATCATTTAAAGAAAGCTAAATTTATTAGTAACAATCTTTA CATTACACAAACCCA
VI-2437c	192 G	A	---	---	CACCAGCCACCACCCCTACAACCTCCTGTGGGGAGTCTGGCTTTGATTATTTGGGGACAAAAATAATTT CAGCTTGAAGAGAGATTCCAATCACAACCTTTCTAAATAATAGACACCACAAAAATCCCAATGCTCTAA ATAGATGGACTCAACCCCTTCTCCTTCTGCAAGAGGCAATCGACGAACATCACAGTG[G/A]GCTGTG GTGCCAAGGACGCATTATG
VI-2437b	179 G	A	---	---	CACCAGCCACCACCCCTACAACCTCCTGTGGGGAGTCTGGCTTTGATTATTTGGGGACAAAAATAATTT CAGCTTGAAGAGAGATTCCAATCACAACCTTTCTAAATAATAGACACCACAAAAATCCCAATGCTCTAA ATAGATGGACTCAACCCCTTCTCCTTCTGCAAGAGGCAATCGAC[G/A]AACATCACAGTGGGCTGTG GTGCCAAGGACGCATTATG
VI-2437a	128 G	A	---	---	CACCAGCCACCACCCCTACAACCTCCTGTGGGGAGTCTGGCTTTGATTATTTGGGGACAAAAATAATTT CAGCTTGAAGAGAGATTCCAATCACAACCTTTCTAAATAATAGACACCACAAAAATCCCAAT[G/A]CTC TAAATAGATGGACTCAACCCCTTCTCCTTCTGCAAGAGGCAATCGACGAACATCACAGTGGGCTGTG GTGCCAAGGACGCATTATG
VI-2440	71 G	A	GCAACCTACT GACAAATTTAA TTTTAGTT	AACAACCTGTC TATTGGTCTCA C	CAGTAGGAAACGGGTCTTCTTAGACCCCTCCAGAAAAATAATGCAACCTACTGACAAATTTAATTTTA GTTG[G/A]GTGAGACCAATAGCAGAGTTGTTACCTGCAGAACT
VI-1356	123 T	C	TGTTTAGGAA ATAATGACAA GAAAAA	TGTTTACAAC GTACCAAAACAT G	CTGTAAACCTACACACATCCTCCTGTAACTCTAGGTTACTTTGTAATACAAAACACAAATGTAATGCT ACATAAAATAATTTGTCATCTATATTTAGGAAATAATGACAAAGAAAAAAGCC[T/C]GTACAT GTTTGGTACAGTTGTAAACCAGCCATTTTCCCCCAATATTTTCAATCCACAGTTGTTTAAATCCACAG AAACCACGAATG
VI-2886	46 C	A	CAGAGTCTGG GGGAGAAAGA	TTGCCATGCTT TATCTCGTT	ACAGTTAAGAAAAAGGCTGCAGCCGTTGCAGAGTCTGGGGAGAAAG[A/C]AAACGAGATAAAGCATG GCAAAGACCACCGTGAAAGTATCCAGGGTGTGTATGTGCACATAGGAAGATCACTTACCTCAGCA TAGGAGGAGGGCTAGGCAAGGAAAGGTGTGAGAAAGACAGAGGAGCGTT

VI-2906b	77 T A ---				CCTGAACACCTGGAGCACTTCCCTCCCTGGACACCTTCATCTTGTGGAACCTTGCCTGGAATGCTC TTTCCCTCTT/AJGAGCTTTGCTTGGCTTACTTTTCTTTTCTTTAGGTTTCAGCTTCAAAGTGACCT CCTAGAGTTGGTTGCTGACCAACAAA
VI-2906a	50 A C TCTTGCTGG	GACACCTTCAT		AGAGCATTCOA GGCAAAGT	CCTGAACACCTGGAGCACTTCCCTCCCTGGACACCTTCATCTTGTGGAACCTTGCCTGGAAT GCTCTTCCCTCTGAGCTTTGCTTGGCTTACTTTTCTTTTCTTTAGGTTTCAGCTTCAAAGTGACCT CCTAGAGTTGGTTGCTGACCAACAAA
VI-1736	175 C T ---				TACTCCTCATCCTCATGTCCCTAGACGTACTCAGATTTCCATGCCCTGAAACATTTATTTCCCTAAAT TAGATTTCCACCCCAAGCACTATTTACACAGAAACAGCATGGAGCAGTTTGGAGTCTGGCTCTTAGA GAACTTACTTAAGGACAGTGGTTTCCCATCTGCTTCCA[C/T]AGAGATCTAGGGTGTCTTTGGAAACC ACCTTGG
VI-1851	136 G A GTGTTAAGTA	GCATTGAATT AACTATAGAT		CACTAGCAATG TTAAACTGAAG TTG	AATACCCACGTCCTAACACCATCACACTGATCATCAATCAGGTTTAAACATATTAATCTGGGAGG ACACAAACATTTAGACCATAGCATTTGAATTAACATATAGATGTGTTAAGTAAATTAATTAACATGGTA CA[G/A]ACAACCTCAGTTTAACATTTGCTAGTGATCCATGGATACCATGTACCTTCTTACATCATG TGA
VI-3000	62 G A AGAGACCCC	CCCAAAACAC		GCCACTATAGG ATTGACTAAGA CTCA	CTGATGTTTGGGAAGCACTGTCTTACATCTCTAAATGTGAGCACCCAAAACACAGAGACCCC[G/A]T GAGTCTTAGTCAATCCTATAGTGGCAGTACCTGAATCAGTGCCTGGTGCATAGTAGACACT
VI-1754	177 G A TAGTC	TTTTCTCCCTT CTTAAAGAGA		AAAGTCGAATT GCCTCTGG	ATGGATCTGCTCAATTATAGTCCAGATAAACAGCCCTTCTCCCGCCACCCCGGATTATTTTACT TAAGGGTTTAGCAAAATTCACCTGACAAAGAGTTAGGTTTCAACATTTGACCTCATAAAGTGATTTT TTCTCTTCTGTTTGTCTTCTCCCTTCTTAAAGAGATAGTC[G/A]CCAGAGGCAATTCGACTTTCTGT AGCCACAAGATT
VI-3167	37 T A TAGATTC	AAATTCAACC ACAGATCTAT		TGTGATAGTTT TGAGATGGGTG	ACAACACAGCAAAATTCACCAACAGATCTATTAGATTCTT/A]CACCCATCTCAAAACTATCACATCAA AGAAGCAAGGAGACATATTACTGGTGAGGAAGCCAAATTCAA
VI-3208	140 G A AGATAAAGA	GTGGAGTGGGC		TCACTCAAACT AGGGCTTGG	CAAGCACACATTCAGGCAGTGGGCAGGTAGGGAAGGTGGGCAACTTGGCAGCAGAGAGGGAAG AAGTTGAGACCCGTTGGGTAGGATAAGTGGATCCAAACCCCTTGTAGGCGAGGTGGTGGAGTGGCAG ATAAAGA[G/A]CCAAGCCCTAGTTTGAAGTACACTGTGGGGATTCAAAG
VI-1775	47 C T TTTTCTCTG	CCTGCATGGTC		AGTTGAGATT ATGACAATGAT GTAAA	ACTCCACCAACAGTTTGTGAGCCAAACCCCTGCATGGTCTTTTCTCTG[C/T]TTTACATCATTTGTCATA AATCTCAACTGACACATCAGTGTCTCTGCCACCCCA
VI-3402	55 G A ACAT	AGCATATTCA TTGATTTCCCT		GAGGACTTAAA AAGGAGCATTT G	CTGCCCTTTACATCCAAAGCCAGTTACTCGAGCATATTTCATTGATTTCCCTTACAT[G/A]CAAATGCTC CTTTTAAGTCCCTCAACTTTTAAAGCGGAAGTTGAGACATGCACAAAATAGATTTCCCTTAGGA

WI-3416	33 C T	CCAAGTTGTA GCATTGAGAA	ACGAGCACAA CTACCTCTAAG AG	TCTGGTCTCCTCAAGTTGTAGCATTGAGAGTGCCTCTCTTAGAGGTTGTGCTCGTCTGTTAAAA TATGTTTTCAAGATAGTATCTCCCTGTTGTCACTTCTCCTCCAAACAAGTGTACCAACAGCAATTGTTAAG GAAATGTGCAATGCTTGCTACCTCTGACGACACAAATAATTAATCCCATTTGCCTAAAAAGACCAGG
WI-3453	70 C T	TTCTTAGGCC ATCAGAGAA	TCAATTTTCCC CATGACTTC	TCCTATTCTTACAACAACAGAAATTTAACAAATTGAAATCAGCTACTCTCTTAGGCCCATCAGAG AATC/TJGAAAGTCATGGGAAAAATTGATGCCATGTGAATTGGAGAAACAGACAGGCATATATGGAG AATTACAGTTTACCAGGACACAATCCCACTTCCAGAGCCATCATCTGTAAAGAC
WI-3474b	109 G A	---	---	CATGCTAGGTAGATCTGATCATGAAGTTTGAACAACTTAAATCATCAAGTGTGCTCAACTGGTTTGA GTCAGTTTTCCCTAAATTTAGCACAGTATTTAATGAGGTGTG/TGA/JTGGAGAAAAATTGATGGTTGCG TAGTTGAGTTTTCTGTCACC
WI-3474a	90 A G A C	AGTCAGTTTCC CTAATTTTAGC	CAACCATCAAT TTTTCTCCA	CATGCTAGGTAGATCTGATCATGAAGTTTGAACAACTTAAATCATCAAGTGTGCTCAACTGGTTTGA GTCAGTTTTCCCTAAATTTAGCAC/A/GJATTTTTAATGAGGTGTGGAGAAAAATTGATGGTTGCG TAGTTGAGTTTTCTGTCACC
WI-3502	79 C T	CCTGGTTTCT GGATGTCT	GGGTGACCTG TCTCA	TTTGACCCCATACATGAGAAATAAACCCATAAGAAATGGTGAAAAATAAACCGGAGAGACCTGGG TTTCTGGATGTCT/C/TJTGAGGACAGGGTCACCCAC
WI-3600b	146 G C	GGTTTCTAAC TGGATATAAA	CCAGTGCAGCC TTCCAT	TCACGGCAAGTTCTGCAGCAGTGTCTTGACTCCTGCTGTTTCCAGAGTCTGATTATCCATGCCCTG ATAGTTCTGTGAGCCACCTAACTGTTTCTGCTTAAGTTATCCAGAGGTGTTTCTAACCTGGATA TAAACATCTJG/CJATGGAAGGCTGCACTGGATGAGGTACAAA
WI-3600a	78 T G	CCATGCCCTG ATAGTTCTG	GGAAACGAGTT TAGTGGCTC	TCACGGCAAGTTCTGCAGCAGTGTCTTGACTCCTGCTGTTTCCAGAGTCTGATTATCCATGCCCTG ATAGTTCTGTJG/JGAGCCACCTAACTGTTTCTGCTTAAGTTATCCAGAGGTGTTTCTAACCTGG ATATAACATCTGATGGAAGGCTGCACTGGATGAGGTACAAA
WI-3678	125 G T	---	---	TAAATCATGCTTATTTTACAAGGTAATCCACTCACAATAGGCAATTGATGTATCTCTTTCTGTAA GAAAGCTCTCATGCTCTTCTGAACTTCTACTACTGTGCTGTTATGATGCACCTG/TJCTTTTGG ATAGATGGTTGATAGGAGTGGTTGTTAAGACACAATTTACCTGTGTGTTTCAGGCAGAAATAG ACTCTCTCTGTGTAATCACTGAATGAGTTCCTGTTTCAAGCTTTATGCTTAC
WI-3687	67 A C	---	---	AAAGCGATGTTGAGATACCACATTCATGAAAAAGTAAAAACACACACAAAAATATGACATAAAA TJA/CJAAAAACTACTATAGTTTATGAAAAATGACTTCCAAATTCAGAGAAAAAGTCACCTTAAACAGG ATTCTCAATTCATTCAGAAATACTCCTCTGCTTCACTTTAAGCTTGAAGTGCACAG
WI-3735	72 T C	CCTCAGTTATG TATCAAAATGA	GGCTCACC CATGTTTT	TCTAAATGTGAACCCAAAGAAATCCTGACACGACCTAACTGCCAGTCTCAGTTATGTATCAAAATGA AAAACT/CJACACCCGGTTCAATGAAAAACAATGATTGGTGAGCCATGTCCCTTATTTAATGAAAA GATCTGGGCAATTAAGT

WI-1819	51	CT	---			GAAAAAGCAGGAAGCCAGGCAGGACAAACTTTTGAAAAAGTCTTTTCAGCAC[C/T]TTCGTGGATCCG AATTTAGTGTGATTGGCAGGCAATGCGGGTAACATGTTCCAGTGTTTTAACTTGCACAGAAATTGC CAGATTAGCGATTGTTGACTTGTCCTAATTAATGAATGTGAAAAAAGGGTGGTAACTGTT AAGCTGCTGCAATGTTTAGACACGAGGTGGGGTGGGAGGTGAATACC
WI-3746	116	GA	---			GGCCTATTACATGACACTGGGCCAAGATCTTGCTTCCCTTTCTTCAATAGATAGACTAAGTAA ACTGCCCTGGCCAGGAAGATGTTGCTTTCATCATCTCTGCTCTG[C/GA]GCCCCAGGATAAAGCA GGCA
WI-3867	49	TC	CAA	TAAGATAACC ATACTAGGTAC ATCCG		AGCAATGAGTTAACTCCTTACATGAACAGTCATTAGTCTTCCGTGACAA[T/C]CGGATGTACCTAGT ATGGTTATCTTATCTGACAGACAAGGACACTGTGACACAGAGATTGTTACTTTGAACAAGACACAGT CATTAAAGTGAGAAAGCCAGCATTTCTAATCAGGCTCAGTGATCTGCCAAACCAACCCCTTCTGCTATAG CATC
WI-3898	25	AC	G	TGACCAATGTC TTTGAAGCA CTCTOC		CAATGACCAATGTCTTTAGAAGCAG[A/C]GGAGAGGACACCCGACGACACACAGGAAGGAGTGAG GTGAAGATGAAGCAGTGTGACGAGCCACAAAGGTGAGGAAGAGCAAGGGTGTCTGGCCACT
WI-3901	114	AG	---			GGACCATTTGCCCTCAGAAGTACATTCAAGCCCTGGACGGTGTCTCCTAACACTGTGACCTCAGGCA AGTCATGTCTGCTTCTGTAACCTCGGCTTCTCACCTGACAAAGTGGA/GTATCATGTGTACACTGC AGTGTTTATAATGCTGCAT
WI-3914	99	CT	GC	TGATCTTCTC AAGACTCACA TGAAGGATGG		CTGAGGAGATTGATGCTACTTTACCIGAGGAACCTTTTATTACCTCCCTGAGTTTGTTCCTTGCAA GACATTGCTGATCTTCTCAAGACTCACAG[C/T]ACCATCCTTCACTTGTCTTAGACCTATAACTAG ACTCAAGTCCCAGCAGGCCCTTAAAGGTAAGGTACAAAGTGTACCCCATGGGAGGTATGTTACGCTA CAAAAGAG
WI-4019	33	GA	A	CCAGAGCGT CCTATGAATC ATG		CCACTCCAGGCCAAGAGCGTCCTATGAATCAT[G/A]CATTTGTTCTCTGTTATTGCTGTTACAGAGT GGCAACTCTTGCAAAGGGAGGGGTACAAAGTGAATTTTAGATGCTGCAGGAGACGAAGGGTC
WI-4091	84	AT	GTCATTGCATG	TGAGTTCCCTAT TAAGTGACAAT ATTGTT		TAATTCACATTGCTCTTGTGTCATTTATTGCTTCTCTTATGTAAACACAAATCACCACACATTGAGG TCTTAGTCATTGCATG[A/T]TGTAACAATATTGTCACCTTAATAGGAACCTCAAGCATAGTTATGTT ACATTTATTGCTAACAGCAG
WI-4160	117	AG	CAACAGAA	TGCAGGTAGAA TTTTCTAATAT AGCC		TCCCTCTCTGTAATAGGAAGTCGATTAGATGCCCTTTGAGGTTAGGTGGCTTCTAAGATGGTAATT ATCTGTCCAAGTTTGTTCCTATAATTTAGCAACAATATCAACAGAA[A/G]GGCTATATTAGAAA ATTCTACCTGCATCCCCCTGGATCTGAACGTTCTTCATGATACT
WI-4168	32	AG	AAACA	GGTGAGAGTC AAATTGATAC GATTTTCAGA		CGTTGCTGGTGAGAGTCAAAATTGATACAAACA[A/G]TCTGAAAAATCTGTTTGGCAATCTATTAAAGG CAAATATATACCAGCAGTGTGGTCTAGCAATTTCACTGCTGGCATTACCTAACATAAATGAT

II-4177	68 T C	TGAATAAGCA CGTATTAAATT TACCTA	AAGGCAGCAA ATCATGATG	ATGCCTGCGATATACCTTTCCAAATGACTAGTATGAATAAGCACGTAATTAAATTTACCTATTATATTT AT/C/CJCATCATGATTTGCTGCTTCTTTCCAAATTTACTACAAATTTGATTGTGCACATGAGGCACATG ATCCCATTAACCCAAATAG
II-4199	51 A C	CTCCGCAAGTT AGTCAATATA AAAA	ATATGTTGATT AGGTATAACA ATATGTGTG	GCCATGAGCACAGAGGCTGAAACCACCTCCCAAGTTAGTCAATATAAAAAA[AVC]CACACATATTG TTATACCTAATCAACATATAAATGTTATAGATTAAACAGTCCACAGCAAACAA
VI-5163	24 C T	CTGTCACTGGT CTGCCTGT	AAAGGAACAC AGGAACAGAC C	TTCTGCTGTCACTGGTCTGCCTGT[C/T]GGTCTGTTCCTGTGTTCCTTTCAATGTTCAACTGCTTGTAT CTGTGCCACTAAGGTATCAGGTTTATATGGGCACAGGATGAGGGGCTTTGTAGACCAGAGTTTCTT GGAATTGCAACATTTGGGCAT
VI-4250b	117 A G	---	---	TAAGTGCATTAACTGTACAAAGTCCACAAATACCTCTCCACCAGTGCTAAAGCAGTTTTTAATAACA GGTTCAATATGAGTCTTGTGAAACAGGGGTGGGAAGGATCCTGTAAAAGG[AVG]TAAATATTGTTTT CCATAATATTGAAGATGTG
NI-4250a	94 G T	TCAATATGAG TCTTGTGAAAC AGG	CTTTACAGGA TCTTCCCAC	TAAGTGCATTAACTGTACAAAGTCCACAAATACCTCTCCACCAGTGCTAAAGCAGTTTTTAATAACA GGTTCAATATGAGTCTTGTGAAACAGG[G/T]GTGGGAAGGATCCTGTAAAGGATAAATATTGTTTT CCATAATATTGAAGATGTG
NI-4255	68 G C	TGCTCCCCCAT CACCT	AGTTGTGTAAG G	TAAATGCTCTGGGAGATAATAGAAAGTCCCATCCCTCTGATACCTTGGTGTCTCCCCCATCACCT [G/C]CCTTACACAACTTGAAGTAGGCCCATCCAAACACTGGTCAGAAAGTAATACTGTGCGAC
NI-4256	57 C T	---	---	ACAGCCTCTTCAAATGGCACAATCAAAAGCACCCAGTAAAGCAGAGGCAAAATCTGG[C/T]CTCAC CATGGAAAAGTCTCTGAAGGATAAGGGAGTGAATGACTGCTAGAGAGAGATGATTGGCCTT
WI-4325b	71 C T	---	---	AGTTCACTGCCTAGATGAGTAGACCATGTTGCTTTTGTAAATGTACATGGGCAGGACCGGAAATGG GATG[C/T]TACTATAGATAATCTTTTTTAAATGACTCTTCTTGGTCTCTTCAAGATATCACCAAGCCAC CCAGGCACACTGCCATACT
WI-4325a	58 C T	---	---	AGTTCACTGCCTAGATGAGTAGACCATGTTGCTTTTGTAAATGTACATGGGCAGGAC[C/T]GGAAA TGGGATGCTACTATAGATAATCTTTTTTAAATGACTCTTCTTGGTCTCTTCAAGATATCACCAAGCCAC CCAGGCACACTGCCATACT
WI-4347	158 A G	---	---	TGGGCAGAAGTCGGGTATGGCAAGTCAGGTGGTTAACTTGGATGCCACTTCTGCTGTCACTTCT CTAGACTCTTGACCTGACGAGGATCCCTGGCTCTGAGTTTATCATCTCCACCTCCAGCCCCAG GGCCCTGTATCTGTTCAAGGCC[C/G]GAATCGTCACGGCTCACAACTGTGGAGGTAGGAATGACGA G
WI-1936	117 T C	---	---	CCAGTCTAGGCTGCAAGGACTTCAATTTCTGGGGCAAGTCTGGTGTGTGCTAGGGTCAGAGGCAGCG ACCTGAGGGACACACAAACAGTGGGACACCAAGGGTACTTGTATCACTTCTCTCCCGCAACCCCA AGCAGCACAGCTTGCAGCTCCAGGAAAGACTCCTTACTTCCACTTGAGAAAAGGAGAGGGAAAGAGA AAAGAGGACTTTGACACACAACTTGA

-5204	54	C T	---				TAGATTTGATTGATGACAAATAGGGAAGCCTTTGTTAAATTGGGTTTTGAAGAA[C/T]GAAGAAAAA TGGAAAGGGAAGAAATTGACAGAAACCAAGAGAGTGTGAGGGGCAGCAAAATCCCAGTTTGACTGGA ATATAGAGTGATGTCAGGGTTG
-5215	70	A G	CTCAAAA			AGATAATTTTG TAAAGATAGTT TTCCG	TTTTCCCTTATTTATTTAGGAAGCAAAATGTTTCATACAGGACCTTAATATTTAACAGACTCAAAAA TAT[A/G]GCGAAACTATCTTTACAAAATATCTCCATAGCAAGTAGACATTTTAGCACATTTTCCT GTAGTCAAGGTTTTAAAGGCCAAATGAAGTTGACTAAAGACAAAT
-4448	112	T G	ATATAA			AATTAAGAA ATCTTTACATG GTTCTTT	CCCTGAAATGTGCTTTGCTTCTCTCCTCAACTCTCTAGGGAACCTTTTCCATGTCAGGTGAAGGTTTTGA AGAGTACTTTTAATTAACTTGTATCAAGAGAGATGGGTATATAAT[G/A]AAGAACCATGTAAAGATTT CTTTAATTAGTGAATTTTCATCAGGGCTCTTCCACTGTCTATCAGTAAA
-4456	49	C T	TATAGTTCC			AGTTGAATTA TTCAGAAAAT GCATGAACCTTG	ACACATTTCAATTTGCTTTAAGTTGAATTTATTCAGAAAAATTATAGTTCC[C/T]CAAGTTTCATGCATAA CAGGAAACACCCAGGTTGGGCAATTGATTGAATTGT
-4461	49	A G	CCTTCC			TTGACCTTTC ACCAATTTCA	CTGAAACTAATGAGGTGCTAAATCACTGTTATTTTAAATATCCTTCC[A/G]TGAAATTTGGTGAAA GGTCAAAAGAAATGAAATTCACCTTTTAGATTTCTGGAAATTTTATTTGCGATGATAATGCAATGGGC
-4465b	75	G A	---			---	CTACTGGATTTTACTTTGCTCAAGCCAGACACACGAAAGTATATAAAGAAAAACAGTTAGTAATCTT TCACCTTT[G/A]TATTTCTCTTCTACCTCAGGGAATC
-4465a	41	A G	ACACGAAAGT			GGTGAAGATT ACTAACTGTTT TCTTT	CTACTGGATTTTACTTTGCTCAAGCCAGACAAACACGAAAGT[A/G]TATAAAGAAAAACAGTTAGTAAT CTTTCACCTTTGTAATTCCTTCTACCTCAGGGAATC
-1949b	160	T C	TAATC			GAGTGAATAA ATGAATGCCA GACAAAAA	GGGGTTAGGACCTCGAGATCTTTTCAAGAAAGCACAAATTCAAACCAATAATGGCAGTGCACAGGTAACCA GTGGTGAGATGCTCTGAGTT[G/C]AAGGCTGCTGACATGGTCATGGCTGAATATATGTTGAAGAAATAA GGAGTGAATAAATGAATGCCATAATC[T/C]CTGTGTTTTTTTGTCCTCCACCTCTCACACCTTTCCCTGG CACA
-1949a	86	T G	ATGCTCTGAGT			CCATGTCAGCA GCCTTG	GGGGTTAGGACCTCGAGATCTTTTCAAGAAAGCACAAATTCAAACCAATAATGGCAGTGCACAGGTAACCA GTGGTGAGATGCTCTGAGTT[G/C]AAGGCTGCTGACATGGTCATGGCTGAATATATGTTGAAGAAAT AAAGGAGTGAATAAATGAATGCCATAATCTCTGTGTTTTTTTGTCCTCCACCTCTCACACCTTTCCCTGG CACA
-4529	64	T C	AAGATG			TTCTAAAAATA ACACTTCTGA AAAA	TGAGAGAGTTTTTGGATTATTCATCCTCTGCAACACTCCCAAGTAAGTCTATCATTTCTGAAGATG[T/C] GAGTCTCTTTTATATCCTATGATTATTTTTCAGGAAGTGTATTTTGAATATAAACTCCTGGGT CCCATCCAGGCTAGGGTCAATGGCATCCATGGGTCGCTGGACAAGATGGGCCCTAGGATCATTTT

WI-4540	110 A G	GCACCATGTGG CATCC	GACAATGCAGC CATGCA	AGCTTTTCCTTTCTTAAAAATGGTGCCATAGTACTGGCTTCTGTGTGCATCAGGAAGCAAGCCTAT TGCTCGGTAAACAGTACTTTGCAATAAGCACCATGTGGCATCC[A/G]TGCAATGGCTGCATTGTCCAGTC AAATGAGACAACTTCTCTAT
WI-4582	226 T C	---	---	AGCAAGCATCTGGCAAGCCTCGGTGACCAGAACATTAATTAATTCACCAACACCACCTGCTCCAAATGT CCATGTTAATGCAATTATAGAACTCCAGTAGCAATTCAGGCCAGTTTAACCTTATTCCTGTACACA ATAACTTTATGGGAGACAGCATTTGTAATTCAAATCAATAAATGACTCGGTTGGCTGTACAAGCAT AAACAGAACGCTTGCAAAATATGGTT[C]CCTCCTTGCTAGAAACCAATTGAT
WI-1965	105 G C	GCCATTGAGG AAGTGTTAA AG	GAATGGATGGG TCACTCTCT	CAAGGTTAGTTAACTTGGGGGCAACACAAAAGTTATGAGTACTCAATAACCTATGTTCAAGGG TAACCAACACCTTTTGGCAATTGAGGAAGTGTAAAG[G/C]JAGAGAGATGACCCATCCATTCCTGG GCTTCTTATATGACACCATACTATTCCACACAGATGGGAGTCATTTATTTGGTTGGTGTATGACAGT CATGG
WI-5248b	99 C T	CACTGTTTCT ATTGACCGTAC TTG	AGAAAAAGAG AAGAAGGAA AAA	TGTTTAAAAACCATACAGTTTGTGCTGCTACGTTGTTAGAGCAACCCAGAAAAATTAACACGCCTAC CATTTTCACTGTTTCTATTGACCGTACTTG[C/T]TCTTTGCTTTTTTCCCTTCTCTCTTTTTCTG CCCTCTTTTAACTATT
WI-5248a	38 G C	AGTTGTGCTG CTACGTTGT	TTTTAATTTTC TGGGGTTGCT	TGTTTAAAAACCATACAGTTTGTGCTGCTACGTTGTTA[G/C]JAGCAACCCAGAAAAATTAACACGCC TACCATTTTCACTGTTTCTATTGACCGTACTTGCTCTTTGCTTTTTTCCCTTCTCTCTTTTTCTG CCCTCTTTTAACTATT
WI-4596	69 T A	TGAAGCAGAA AGCACTGTGA	CAGGAGATGGG CCTAATAATG	CATTGGTGGTCCAACTTCTCGGTGACATTACTCTGTTGACTTTGCTCTGAAAGCAGAAAGCACTGTGA C[T/A]CATTTATAGGCCCATCTCCTGCTGAAGCCTGCCTACAGCAATTTGTAAACATATGGCATTGGG ACATATCTCTGAGCCCATCACTATTGACAAGATTCTCTTTTTTAAACA
WI-5252	119 A C	---	---	GAAATAGGGCAAAATTAAGACTTCAATAATTAAGAAAGTCTTGGGAAAAGGATTGTGATGATCATTG AATCTGTTTAAATACAGAATTAATACTGAATACCTGTGTGAATCATTCCTTT[A/C]TACCATGTACA TATTATATGAATTAACAATGTAAATAGTATGACTAAGAAATATTGGGCCCT
WI-4606	61 A G	GCAATGCTAG AAAATTATGC CT	TAGGTGCTTA AGTTGTCTACT TGG	TGCAAAAAAGGAAAAATGATAACCCAGGACTGTTGTTCAAGCAATGCTAGAAAAATTAATGCCTA[A/G]C CAAGTAGACAACCTTAAGCACCTAAGGCAGAAATGAAAGTTTCTCTCTTGTCAATTAAGTCCTCTATTCA ATTACCATTTATCGGGGTAATTAACACACTGGAAAGTAATGCCAGGCTAATTGTTAGATTATGATAAT TACACGCTTTGCTATGCT
WI-5257	77 C A	GAGGCATGAA GCAAAGAGG	CCAGGGGCAGA TGAAAG	CAATGAGAAAGTTACAGATCGGGGCAAAATTAAGCATATGAAATACCAAGTGTGGCAGAGGCATG AAGCAAGAGG[C/A]CTTTCACTCGCCCTGGTGGGTTTTTCACTAAGTGCACATGTCTTTGCCTCC CGGATGAAAAGATACCCCTTCTATGACTCAGCAATTCACCTCCTAGGTATGCACCCCTAAACATGGGTG GCAAAAT
WI-4649	50 C T	GAGACCATCT TTCCGAATG	TGCTAGGTG TACTTACAAGA AATCATC	TCACGTGTTAGAAATTTCTTCTCCTCAGTGAGACCATTCTTCCGAATG[C/T]GATGATTTCTTGTA AGTACACCTAGTACATCTATGAGCACACAATTAACAAGTACTTGCTACCTGAATTTGTATTTTTTAA AAATCCTCCCAATATG

-4650	148 A G	GCACAAAGAA AGTATAAGTT GTCCTT	CTGAAGTGTTA AACTGGATTG G	AACTGTGTGTATGTTGTGTTTCTGGAGAGTCAGTTACTCTCACTAGATCATAAAGGG GACTTGGGAACCAAAAGTATCTCAAGACATTTAATCCTAGAAGCACAAAGAAAGTATAAGTTGTCTC TTATATTGCTTTT[A/G]CCAAATCCAGTTTAACTTCAGTAAAGTT
-4677	82 T C	TCCAAAAGTG ATTAGGTGAA AAA	TTTCAACAGTG TCATTATTCAA CTT	AATTCAGATTTTGAACATACGTCGACATTTTGGAAAAAATTTGCCAAAAAGTGATTAGGTGAAAAAT GAGTTGAAATAAATG[T/C]AAGTTGAATAATGACACTGTGAAAAATGATGAATCTGCTTTCAATTCA CATGGAAGGAGACTAGAACACACAGCAGGTTTATAGGGGAATACTCAT ATGATGCTATCATGAGGAATCTGTAGAAAAATTTTACCTGGCAATTTGATTCAAATAAAGTTTGTCC TCACCTGGGAAACTGCTTATCTTGATGTCAGTGACATTTCTTTCTTTGACGGAAGAAAACTTCAA[C/G]TTCGAGAAAGGCTTAGATTATATCGCTGAAGCCCATCTG
-4698	135 C G	---	---	CTTCCCATTCTGCCAGTTAGATGACTGCCTCTCCACCGCTAGAAAAAGATGGGAGATTATTTC TGCACATATGGAACACCCACAC[G/A]CAACTGAATGCAGATTCATATTGAATACTGGGAAATCAGTGA AAG
-4722	88 G A	TGCACTATGG AACACCACAC	AATATGGAATC TGCAATTCAGTT G	GCCACAGTAAAGAGGAAAAATGGAGCCATGTAAACAGAGGAGAGCTTTCTGAAGATCAGTGATTGTCA TAAAGGTCAGTAAATCACTTTGATGGTTGAGATTTTCAAGAAACGTGAAATTTATTGAGTAACCATGGG TCAACTATGAT[C/A]CCAAACACAGCAGTGTGCTCTAAAAAATATGATAGTTTCTCTCTGTCACCC GCAATGAAAAAGGAGTT
-2020	145 C A	---	---	GACTACAGCGCACAGACAGGCGATTGTGTGGCTTGACAGGTGTTTGTGTTTAAAGTTAGATT TGAATCCTTTAAAGAAAGAAAAAGTGGCTCTTCAGTTTACTACAGACCTCATCTCCTGTTCTCTTG CACCCAGTCCACTTCACCTGTTTACGTTCCCTGCTCATCT[C/T]TCTAGGTAATTTGAGTTTCCAACC TGTTG
-2028	176 T C	CCTGCTCATC GGGTGCTAGA ACTAATCCCTC	GAA	ATGTGTATGAGCTCCACATTGCGCAGATTCAACCAACTATGGATAGAAAAATATAGTATCCCAGATGG GCAGCCCCAAGGATCAGAGGGCTAATTTTAAATTTCCAAGTTTACAGGACCAAGTTTGGAAATTT AGCATTCTGGGTTTGGCATCCATCAGGGTGCTAGAACTAATCCCTCA[T/C]GGAGAACGTTGGAACCC ACTGATATACCAAT
-2033	183 T C A	---	CGTTCTCC	TTATGGATACATGTTTCTGGTGAAGGACAAAGAGTTGAAGCAAAAGGACAAAGGAGATCAACTGGG TAGAATAACTCATCGATCCCAAGGCTCCTTCCACCAATCTCCATCTACTCTGAT[T/C] AGGCAGACTTATATGAAAAAAGGGA
-4745	131 T C	---	---	CCACGACTATGCTTTCAGAGTCCCTGGTACTGACAGAGAAGGCTTTGAGGACCATGTGGCGCCAAGA CCTCCTTCTGGGTTTTCAGTGAAGACGATGAACCTCTTCTACAGCAGCTGGACTTCACCA CAGTGCACCAAGGAC[T/C]GGACCTGCACCTCTATCTTTACCCCTTCCGACACCAAGATGCTGAGATGCC ACACTCTGAGTG
-2034	150 T C	CCAAGGAC	CC	

I-2038	155 C T	TGTCCTTAAA GTGTGTAAGT ATTAATTAG CA	ATTTCTCTTG AAAGAAACAT CA	TCAGGTGACAAGAAAAAGTCACATTTCTTCAATCACTCACTCACCATTGTCTGTATTGTCTCTGCAGTGT ATCCAAGGATGTCACATTTTGGAACTCTGTAGATCAGAAAAAAGTGTCTTTAAAGTGTGAAGTATTA ATTAGATTCTATTTTGATA[C/T]GTGATGTTCTTTCAAGAGGAAAAATTTGTGTAAAGAGGATTCCCATTT TGCAATTTCCATTGGC
I-4782	113 C T	GATGCAGAAG ATAACTAGAA AATGC	GAACTCTTCTG GTTATTTTCT GTTG	TCATTGACTTTTAGAGTCTCTTCAGTCTTTATGTCTTATTTTAGGAAAAAAGTCTAGGCTAGGAGAA CACAAATTCAGGTTCTCTCCAGATGCAGAGATACTAGAAAAATGC[C/T]GAACAGAAAAAATAACCA GAAGAGTTCAATTATGGTTTTTTCCAGAACGATTAC
I-4788	65 A G	GCATAGAATC ATCTTGCTAAG TTCC	GGATAAAATT AAAATTTTGGC ATAA	AGGAGAGTTTTGGCTCTTTCCGGACTCTTGGAAATTCAGTGCATAGAAATCATCTTGCTAAGTTCC[A/G] JTGAAGAAAAAATATGCCAAAAATTTAATTTTATCCAAACTTTAAGTCGAGATTATAATTGATATTT AAAAAACTATATTGAGTCTTTCTTAAAAAGATGGCGTATCACTCTA
I-5300	38 T C	TCCAGAGAC CACTTCATTC	CTACTCTTCT ATTCATAATC CAAAA	CTTACTTCCAAAGTGTTCCTCCAGAGACCACCTTCATTC[C/T]TTTTGGATTATGAATAGAAAAGAGT AGGTGTTATTATTCCTCTTTTACCAAGGTGAAATTTGAGGCTCAGAGACAAGGTAGATGATGAGCCCCA AGTCAGTGACAGAGCCA
I-4818b	121 G T	TGATAATGGG GCCCTGTT	CCTTCCCTTTA TATGTATGCCA GA	TATAATGTTTTGTTCCATAGTTGCCATAGACTAGGTTATGTCCACACATGAATAAACAATCTTATATA ATAATTTATTCAGAAGGAAAAATACATATGGGGTGATAATGGGGCCCTGT[G/T]CTCTGGCATA CATATAAAGGAAGGCTAA
I-4818a	43 A G C	TTGCCATAGAC TAGGTTATGTC G C	CATATGTATAT TTTCTTCTTG AATAAATT	TATAATGTTTTGTTCCATAGTTGCCATAGACTAGGTTATGTCC[A/G]CACATGAATAAACAATCTTAT ATAATAATTTATTCAGAAGGAAAAATACATATGGGGTGATAATGGGGCCCTGTGTCTCTGGCATA CATATAAAGGAAGGCTAA
I-5317	139 T C	TTCCATTCTG GTAGCAGGT	GATGCAAGA AGAAATGAGTC C	TTTTTCCATTTTGTGATTCTTTTTGTCTGAGCCCTTAGATCTCCTTTAAATTAATAGCAAGGTTAAT AATATAATAATATGATGTTATATATTACAATTTCAACTCAACAGGAATCCATTTCTGGTAGCAGGT ATA[T/C]GGACTCATTTCTTCTTGCATCTATTTCTAGGTTATTTGACGCCCCGAGATCTACCCAGG
I-4888	56 G A	GCAAGATATA AAGATTAAAG AAAGATAACA	CAATTCACCTA CCTCATTTATT CA	AAATGAGTAACCCCAAGTTACTCGGCAAGATATAAAGATTAAAGAAAGATAACAAGA[G/A]ATGAAT AAATGAGGTAGTGGAAATTCCTTGATAACTGGAGTAGTGCCCTT
I-5328	44 A G ---		---	AACATTTTTTAACCATGCTACATTTTACAAACACTGAAAAAGACAG[A/G]AAAAAAGAAATATTTTG CCTCAAAAAAGCTCTTAAGAGATTATGTAATAAAAAAGAAAAAATATGAATCAGAAAAAGGAAAAAAT AGAAACACGTGATACTGGAAGGAG
I-4897	93 A G ---		---	GCCTTTTTGAGTTAAGTCTTTTGAAGTGTGCTTTTTTTTTTCCCCCACTAGGTACTCTCTCGGCCCAAT CCCCAAAAGAAAAATAAGCGCTTGG[A/G]GATAAACACATCTTC
I-5345	29 G A ---		---	CCCTGCTATAGGTCAGTTTTAAAAATCCT[G/A]CCTGCTATGGTTTGTGTTGAAGCCACATCCACT GAGGTATATTCTGTCTGCAATTTTCTATATCACTCAGCTTTCAGATCCACTCCATCACTTGCAG

3R- J04W22	232 C A ---	---	GGATAATCAGTACAATAATGGGACCTTAAAACTGCTGTGATGCAGGAGTGGAGGGCTGGCAGTG CCCGAGGCGAGGAGGACAGTGGGACAAAGGATGCTCAGTGGTGAGCCACAGCCCTGGCTCTGGA TGGGCATGGGAATGACCAAGTCCACATCATGCACAGCAGGGGCTGTAGCTTGAGTCCAGACAG GCCTGCCACATTTGGTGTGCTGCCCCCGCCTA/C/A/CTGGAGATGCTCTAAAA
3R- 005D24	138 C T ---	---	CATAGAAAGGAGTCTTTGAGTATTGTACAGTTTGAATTCCTTTGAGATAATTGATTTCATATTC TGTGGCTTTCAACCTCCATTACCTCTTGTCATTCACACATCTTTATAGAGAAATAAAACCCCAATTT CTC/T/TTTACCACTTTAGTTGATTATCATCTGGATTTTCACTCAAGATGCAGCTCCTAAGATTATT GTTATGTTAAATTCATAAACTCCTTCACCTTTAATAATTAGGAAACAAT
GR- 005D24	123 A G ---	---	CATAGAAAGGAGTCTTTGAGTATTGTACAGTTTGAATTCCTTTGAGATAATTGATTTCATATTC TGTGGCTTTCAACCTCCATTACCTCTTGTCATTCACACATCTTTATAGAGAAATAAAACCCCA TTTCTCTTTACCACTTTAGTTGATTATCATCTGGATTTTCACTCAAGATGCAGCTCCTAAGATTATT TTATGTTAAATTCATAAACTCCTTCACCTTTAATAATTAGGAAACAAT
103735	74 C G ---	---	TGAGTCTGAGCACGAGTTGCAGCCAGGOCAGTGGGAGGGTCTGGGCCAGTGCACCTTCCGGGOC GCATCC/C/G/TTAGTTTCCACTGCCCTGTCAGTGAGGCCCATCTTCACTCTTTGAAGCGAGCAG TCAGCATCTTAGTAGTGGTTCTGTTCTGTTGGATGACTTTGAGATTATCTTTGTTTCTGTTGGA GTTGTTCAAATGTTCTTTTAA
139840b	42 T C ---	---	GGTTTGCTGGCATAGCCATGCTGTAGCAAGAGAGAGAAAAAT/C/CAACAGCAAAACCAACACA CAACCAAAACCGTCAACAGCATAATAAAATCCAACTATTTTATTTTATTTTTCATGTCACAACC TTGCCCCAGTGCAAAAGACTGTTACTTTATTATTGTTATTCAAAATTCATTGTTATATTACTACAAA GACGGCCCCAAACCAATTTTTTCC
139840	56 A C ---	---	GGTTTGCTGGCATAGCCATGCTGTAGCAAGAGAGAGAAAAATCAACAGCAAAACCAACACA CAACCAAAACCGTCAACAGCATAATAAAATCCAACTATTTTATTTTATTTTTCATGTCACAACC TTGCCCCAGTGCAAAAGACTGTTACTTTATTATTGTTATTCAAAATTCATTGTTATATTACTACAAA GACGGCCCCAAACCAATTTTTTCC
VI-8997	41 G A OCCC	GOCCACTTGCT AGTGCTCA	GTGGCCATCGATCTGGACCGTCCCTGCCACTTGTCTCCC[G/A/TTGAGCACTGCGTACAAACATCCA AAAGTTCAACAACACACAGAACTGTGTGCTCATGGT
NI-7008	180 A G ---	---	TATACCACTTCCATTTGATGATGGAATGCTGCTGTTTCATGACCAACTTTATGGCTAGATGGTCAAGAA AGCACCAGTTTCATGATAGGCAGTTCAAGTCAATATGTTGACTTGTATGACCCAGAGTCAACATTCAG TTTCCACCAAGCCAGTAACAGGCCAAGAGCTGCTCTCAAAAG/A/GJAGAGTAGTTATCTGCAGA AGATGGCAGGGCTTGTCCGAAAGCCTAGAGACCCGCTGTTGATTACCT
WI-9005	26 C T GGGAACTCT	CGAATTTGCTG AAA	GGTCCACGAATTTGCTGGGGAATCTC/TGTTTCTTCTTAAGACTTTTGGACATGGTTTGACTCC CGAACATCACCGACGGTCTCTGTTTCTGGGIGG

593	46	G A	---	TTTGTGCTGGACACCCACTGCTCCAGGATGAAAGGAGAG[G/A]AATGAGATCAGTTTGGG CACTTCCTCTTGAATATAAAGAATCAACAAGTTACAGTCATGTTGGGACTTCTCTCTCTCCAA
962	78	A G	---	AGTGCATCTTGGGGAAGGCTCCAGTGTATCTGGACCAGTTCCTTCATTTTCAGGTGGGACTCTT GATCCAGAGA[G]GACAAAGCTCCTCAGTGAGTGGTGATATATCCAAGACAGAACCCAAAGTCTCC TGACTCCTGGCCTTCTATGCCCTCTATCCTCTATCCTATCATAGATAACATTTCTCCACAGCCTCACTTCATTCAC CTATTCTCGAAATATTCCTGAGAGAGAACAGAGAGATTAGATAAGA
059	43	C G	AAGGACCCA GCCATC	GCAGAGAAGAGAACCATGCCAGGGGAGAGGCCACCCAGCCATC[G/G]TGACCCAGCGAGGAGCCAA CTATCCCAAATATACCTGGGTGAAATATACCAAATTTCTGCATCTCCAGAGGAAAAA TAAGAAATAAA GATGAATTGTTGCAACTCTTAAAAAA
063	53	A C	TT	AGCAGCCATCACATGATCTGTTTTTACCACCTTCACTGAAAGACACCAATTTAT[AC]TACCCAAAGGG CAGAAAGTAGAACCTTACTATTCAATTAATGTTTGACACAAATGGAAATTGTC
079	293	T G	---	AAGGGCATTGAGACTATAAAGCAGTAGACAATCCCACATACCATCTGTAGAGTTGGAACCTGCATT CTTTAAAGTTTTATGTCATATATTTAGGGCTGTAGACTTACTTCTCTATTTCTTCTTCCATTGCT TATCTTGAGCACAAATGATAATCAATATTACATTTATACATCACCTTTTGTACTTTTCCAAGCCC TTTTACAGCTTGGCATTTCCTCGCCTAGGCCTGTGAGGTAACCTGGAT
074	38	A G	GGTAAAGTT CTTTTGTCT	TGGATGCCGAGGTAAAGTTCTTTTGTCTCTAAAGAA[G/A]AGGAACTAGGTCAAAAATCTGTCC GTGACCTATCAGTTATTAATTTTAAAGGATGTGGCACTGGCAATGTAACTGT
104b	249	C T	---	GGAGTTGCCCCCTCTTAAGGGAAGGAGATCTTTATCTTCTGTTGGCTTGACCAGTCACGTTGGGA GAAGAGAGAGTGCACAGGAGACCCTGAGGGCAGCGGTTCTACTTTGGACTGAGAGAAGGAGGCC CCAGGCTGGAGCAGCATGAGGCCCAGCAAGAGGGCTTGGGTTCTGAGGAAGCAGATGTTTTCATGCT GTGAGGCCTTGACCAAGGTGGGGCCACAGCACCGAGCATCTTTG[C/T]
104	157	C A	---	GGAGTTGCCCCCTCTTAAGGGAAGGAGATCTTTATCTTCTGTTGGCTTGACCAGTCACGTTGGGA GAAGAGAGAGTGCACAGGAGACCCTGAGGGCAGCGGTTCTACTTTGGACTGAGAGAAGGAGGCC CCAGGCTGGAGCAGCATGAGGC[C/A]CAGCAAGAAGGGCTTGGGTTCTGAGGAAGCAGATGTTTTCAT GCTGTAGGCCTTGACCAAGGTGGGGCCACAGCACCGAGCATCTTTGCT
1974	34	C T	CCTGAGCCCTC AAGAACTCA	CATACAATGAGAGCCCTGAGCCCTCAAGAACTCA[C/T]GCCAGCTCAGCCCTACACCAGTTTCCACC TGGAGTTTCATGCAAGGGCAAAAGGCAGTGCCATGCAAGCTGTTAA
3161	61	C T	CCTAAGCATTG CCTGGC	CTGTGAGGGTGACGTTAGCATTACCCCAACCTCAATTTAGTTGCCTAAGCATTGCCTGGC[C/T]TTC CTGTCTAGTCTCTCTGTAAGCCAAAGAAATGAACATTCCA
3014c	93	T C	---	CCCTGTTCCCATGCTGACCTGTGTTTCTCCCCAGTCATCTTTCCTGTTCCAGAGAGGTGGGGCTGGAT GTCTCCATCTCTGCTCAACTTTAT[C/G]GTGCACTGAGCTGCAACTTCT

JI-9231	32 C	CAGTCCCCA GATTGA	CAGTCCCCAC ACTCAGAC	GTGACCCCTGTGAGGTCAGGTCGCCAGATTGA[G/C]GTCTGAGTGTGGCAAGTGTGTCAAAAGGGGG TGCCCCCAGGAGATGAGGCTGAGAGCAGGGAGTTGAGGCCGAAGAAGTCA
VI-7836	120 T C	CAAATAAACA ATGCAACGTT C	GCTCTCAGAAC CAAGATTAGA AATC	TTGTTTGGGAAATAGAGAGTTGAGATAAACACTCTCATTCAGTAGTTACTGAAAGAAACTCTGCTA GAATGATAAATGTGATGGTGTCTATAAATCCAAATAAACAATGCAACGTTCC[T/C]GATTCTTAAT CTTGTTCTGAGAGCCATTGGTTTCAGTTGTAGCAATCCCCATACCAGCT
VI-7286	65 T C	CAGCTTCAGCT TAACTGACAG A	AAACAATCTA ACCAGAAAGCT TTAA	TCCATTCTTTTGGCCCTGCAGCATGTGTCCTCCAGAATTCAGCTTCAGCTTAACGTGACAGATTC JGTTAAAGCTTTCTGGTTAGATTGTTTTCACCTGGTGATCATGTCCTTTCCATGTGTACCTGTAAATATT TTTCCATCATATCTCAAAAGTAAAGTCA
VI-7858	91 T G	CTAAGCATGT ACGTGAATTT TAAAT	CCCAATTTTA TTAAAAGTTTA CATCTAT	CAAATCTTGGAATATCTCAAATGTTAATAACAATAATGAATTTTCTCATGCATACTATTACTACT AAGCATGTACGTGAATTTTAAAT[T/G]TATAGATGTAACACTTTTAATAAAAAATGGGGTGTGG
VI-7860	50 C G	CGTACCTCCAA ACATAAATTGA TTC	---	GAAGATTAAAGGAGGGGTGCTCTGTGGTCTCTCCCTGCCCTCTCCCA[C/A]GTGGGGAGAGACC TGTGATTTGCCAAGTCCCTGGACCTGGACCAGTACTGGGCTTATGGGTGGGGTGTAGGAGG TGAGCGTAAGTGGGGAGGGAATGGTAAGAAGTCTACTCCAAACCTAGGTCTCTATGTGCAGACCAG ACCTAGGTGCTTCTCTAGGAGGGAACAGGGAGACCTGGGGTCTCTGTGGAT
VI-9064	29 A G	CGTACCTCCAA ACATAAATTGA TTC	GCTTGAGTGA AGTCTCGCAGA	CAAGCGTACCTCCAAACATAATTGATT[C/A/G]TATCTGCGAGACTTACACTCAAGCAATCCTGAGG AATCTGAGGAGGGCCTGGCTACTGTCTCTGCACTCTGCTGCTTG
VI-7307	128 G T	---	---	CACACTTGCTGTTCTTCAGTGTGGAGGTCTTGGCAGGTCAGGCTGGGGTAAGCCGGGGTTCACCA GGCCCCAGCCCTGGCAGGGGTCTGGCCCCCAGGTAGGGGAGAGAGTCCCTCCCTCAG[G/T]AAT GGAGGAGGGGACTCCAGGAATGGGGAATGTGACACCACCATCTGAGCCAGCTTGCAACCTCCAGT TTGCACAGGGATTGTCTGTTGGGGCTGAGGGCCCTGTCCCCACCCCCGCC
VI-9274	25 C T G	GAAATGTGAC TTCACCTTTGGT G	CAGGTAGAATT TTCGTGCCATT G	GAGGAAATGTGACTTCACTTTGGTG[C/T]CAATGGACAGAAAAATCTACCTGTGTACATAGGAGAA GTTTGGAAATGCACCTAATAGCTGGTTTTACACCTTGATTTCGAGGTGGAAA
VI-7313e	266 T C	---	---	AATTCCTTTCTGGTAATCAGGCACATGATGAACCTTTGATTAGTAGGTCTGTGATTAAAGTCTTAAAT TGTTTTGCAGTCTTTTATGTTTTATTATCATAGGTATAGGTGGACCTAAATCTTATCATATCTTATT AATTCAGCCAGTGTATCCACCAGTTTTTGTATGTTTTAAGTAACCTATTATCTCTGGATTTCATG AAGGTGTAATATCGTTTTTGTAACTGAATAGAATTGTATAGCGATGA
VI-7313c	256 C T	---	---	AATTCCTTTCTGGTAATCAGGCACATGATGAACCTTTGATTAGTAGGTCTGTGATTAAAGTCTTAAAT TGTTTTGCAGTCTTTTATGTTTTATTATCATAGGTATAGGTGGACCTAAATCTTATCATATCTTATT AATTCAGCCAGTGTATCCACCAGTTTTTGTATGTTTTAAGTAACCTATTATCTCTGGATTTCATG AAGGTGTAATATCGTTTTTGTAACTGAATAGAATTGTATAGCGATGA

WI-9281	68	G A	---	---	ACTGGTGGGAGACTGTGAGGATCCAGGATTCAGTATTCCTGGCCAGAGGGCCTTGCTGGCTACTGG [G/A]GTTAGTTGAGTCTGTGCTTCCCTCTCTTATGACTGTGTCC
WI-7848	142	A G	CTC	GCTAACACTTT TAAACCCGT GACA	TTCTGAAAATATAACCCAGCTATTAAACTTGTAATTTTAAATTTACAAAAATATAA AATATGAAGACATAAACCCAGTTGCCATCTGCGTGACATAAAACAATAATGCTAACACTTTTAA ACCGTCTC[G/G]TGCTGAATAGCTTCAAAATAAATGTGAATGGT
WI-9304	70	G A	ACTGA	GTATATTACA ATGATCACCG AA	TCACGTTTGGTCTCTCAGATTCTGAGGAAATGCTTTGTATTGTATATTACAATGATCACCGACT G[A/G]AATAATTGTTTACAATAGTCTGTGGGGCTGTTTTTGT
WI-7933b	314	C A	---	---	TTACAGAAACTTGGCCTGTGCTGCCCATGCTAGGGGGGAGGGTCTTTTCCTTCTTCTCC TACCTACCCCTTTTCTCTTGGCCAGGGCCTCGTATCCTACCTTTCTTGTCCCTGGCTGGCTGCAC AGAGGATTGCCCTTCTCTTTTCAGAGCTGGCCCTCGATGCCAAATTAGCATTTAGTATTTGCACAA AGTCTAAGGGACCATGGCTGCTGCTTGGGGAGGAACCATAGCTCCCT
WI-7933	96	G C	---	---	TTACAGAAACTTGGCCTGTGCTGCCCATGCTAGGGGGGAGGGTCTTTTCCTTCTTCTCC TACCTACCCCTTTTCTCTTGGCCAGGG[G/C]CTGCTATCTACCTTTCTTGTCCCTGGCTGGCTG CACAGAGGATTGCCCTTCTCTTTTCAGAGCTGGCCCTCGATGCCAAATTAGCATTTAGTATTTGCA CAAAGTCTAAGGGACCATGGCTGCTGCTTGGGGAGGAACCATAGCT
WI-7374	182	T A	---	---	CCCAGATGTGCCCCATCACGTTTTTCTGAGGCTTTTGTACTTTAGTAAATGCTTCCACTAACTGAAA CCATGGTGAGAAAGTTGACTTTGTTAAATATTTGAAATGAAATGAAAGAAAGTACTGTATATTA AAAGTTGGTTTGAACCAACTTCTAGCTGCTGTTGAAGAATATATTG[T/A]CAGAAACACAAGGCTT GAT
NI-9343	78	C T	CCTCTGCCA	AAATGAAACTT ACGTTTGTG TG	GGTCTGCTCCTGCTACCTTGACCCCTCCCTTTCCCTCTGCTTCTCTCATCATCATTCCTCAACAACAT CCTCTGCCA[C/T]ACACAACAACGTAAGTTTCAATTTGGCAAA
NI-7386b	104	T A	---	---	CTATATGTGAGAGGCGTGATATCTGGATGGAAGTTGGGCTGGATCTCCAAAGTCGTTTCAACTCT TAAAGACATCTTAATCCTGAATGTAACAATTTGTTA[T/A]GTGTTTGAATCAGAAATTTGATTTTGA ACTTGAGTAATTCATCCTT
VI-9357	75	A G	---	---	AAGAAGGAGCTCAGTTACGGGGTTTTAAACCTTCATGAAACCTGAAGAGTTCACTTTTGTATTAT GCTCTT[A/G]TGATTTACAGACTGATGCCAGACAACCTTGGGAAGA
VI-9360	79	T C	TTGG	CCTTAGAAAA TCTGCTTTAAC A	TGAAGGGGTGTGGCACTGTGTTTCTGATGCTTACTACAATATGTGAACCACTACTTTAGAAAACTCG CTTTAACTTGG[T/C]ATTCTCTAATTGTGTTCCCTAGGAAATGACTGTCCCAAG
VI-7423	107	T C	GTTC	GGTCCAGAAGA GGCCG	TGCTCCCTGTCCCATCTGCAGTGGACCCCGCCAGCCCTTTGAGGAGTGGGTGAACCTGCTCCTT GGCAGGGATTGTGACACTGCATTGCTGGCTGTGTTCC[T/C]GGGGCTCTTCTGGACCTTGCACCGTG GATACCAGGCCATGTGCCATGGTATTGGGCTCTGGAGGGTGGTGAATAAAGGCATACTGTCT

WI-7424	131	T A A A A	CAAGAGAGAG AGAGGAAAGA	TGCAAAAGAA GAATGAAAGTT G	CCAGGAGCACTAGAGAGGGGGAAGAGCAGAGATTAGAGAAAAAGCCAGGAGGAAAGG AAAAACATCGCCAACCTAGAAACGTTTTCATTCGTCAATCCAAAGAGAGAGAGGAAAGAAAAA T/AJACAACTTTCATCTCTTGCACGTTTCATAAACATTCTACATA
X86400	118	A C ---		---	TCCTGCAAGAAGTTCTCAAGCCTTTTGTATTTTGTGCAATAAGTACAGCTTTCGATAAGAGTGAAA TTGGGCTAGCTTAAATGGATCCATAAACCTTCTCTAATTTTAAAGTGAGA/CJTCCTTTTAAACACCT GTAAATTTAATGTAGCAGTCTGAGAAATCTAAAAATATGTACCACCTCGTTTATTTGTTTCATTTCATCCA TCCCTTTTCCCATGAATATTCA
WI-8053	242	T A ---		---	GTGCCACTAGATGTTATAGAAACCATCATCTTGTACACAGCAGCTATGAATAAAAGGCTGAG TTATCACTAAGCAGGAGAAAAAGCATTAAAAAGTGTCCTCCATTAAAGGGACTTTTAAATCAACCTAA TAAACTCTAATCTGCTGACTTTTAAAGATCTAAGGTCAATTTAATACATGCTGAAAAGGGTCCACA ATTAATCTTTGATCTTTTACTCACTGTTAACTTATATAA/T/AJTCAGAAC
NI-6190	165	G A ---		---	TACACAATGAATGCTTTTATTTGGTATGCATCCACATTTACGCAATTTAGTGGTCTGAAACAGCAAG TGAAAGACGCAGCAATTTGCCAGGAGGTCAAGCCACCAATTTTCGGGGATCTGCTGTGCACACCGG GTTCTTCTTAATCCCTGCTGAGGATCTT[G/A]GAAGCAGCAGCAGCACCAAAACCAAGGCATGCA CCGATTCAAGGTCTTTTGTTCAGTTGTCAGATTCCAAACCTAGACCCCA
NI-6275	148	G C ---		---	AACAGTCACCACCAACCACATGACAACCTGCCAGGCAAGGCCTTGCTTCCTCCCTCTGCGTCCC ATGTGCTAGTCAGCAAGGTGGGGAGGCACCGATGTAGCTTCGCCAAAGGGAGTATTACAGAGA GAGGCTTGGGAA[G/C]GGAAAGGAAACCTGGACAGGCTTTTCAGCACTGAGAAATCACTTAAAACTG ATTTGCTTTCAGTAACCTGGTATGCTGAA
NI-6421	41	G T ---		---	ACCAAGAGATCAGCTGTCTAAACAGCAGCTTTTGTGATTG[T/G]GGGCTTCCTGAAAGAAACCTTGC TGACAGCTTCTCACTGACCTGCAGGACGGAACCGTACCTGAGAGGGGATGGGGCTCTCTCACAAAA GAATATTTGGGGCAGAACCTGGAACCTGGCCACCGGACATCCCAAATATCCCCCTCCTCCTCAGGG CTACCCCGACATCCTCAGCCAAATGAAGGCTCTGAA
NI-6905	215	T A ---		---	GGTGAGACGGGTTTATTGTGCACATTTACACAGCGTCACAGCGTCTGGGCTGGCAGCGGCCATGCTC CTGTGGTCGGGCTGCTACAAAGGCGTTCACCTTTCTTCCACACACTATGTACAGTCAGTGCTCCAA GGTGATGGGCTACAGTGTGTCATCAGTGAGTGTGTACACACATTTTACATAAATTACACACGACTC ATACATGAAAAA/T/AJAGAGCCTAAGGGCCTGTATTTAATGAGAAAAA
WI-9420	202	G A ---		---	AACTGTTTACAAAAATAGGCTTTGCAAACTTCATTACTGAATTTGTAAGTCAATGACTGTGTTGTTT TAAAAATGTACCAAGGAAATACAAATTTGGATAATGATCATTTTTCATGCTCAGGAGAGAACAGCAC AGAAATAAGGATACTGCACAAGGTGCAAGGAAACCGGAACCCATTGTGTACACTGTCTTCACACAG [G/A]GCATTTCTTCTCACCTTAAGTGCAGCTGTGCAAGATGCCTCAGTGTG

NI-9448	184	GA	---			TGGGGCTGCTTTTAGACTTCATTCTAGAGCAGAGCACCTAGTAGAGGAATACCTGGGAGAGAGAC TGCCTTGCCCATGGTGTAAACCTACATGAGGGGACTGAAATCTCTTTGGATGCCAGTCCAGATCCC TTTTAAGAAAAATGGGCTTGTGGTTCCAAAGGCTGAGAGCTGGCACCAC[G/A]CACTGGTTTCTAAA TCTCTGGCTTGGATTTAICCAAGCGCATGTTCTTAACGTGCCGTGAGCAG
WI-9470	204	GA	---			ATGTCAGAAAGAGACACAGACAAGGAGTTTTTCCCTTTTAAATGCTAAACAAGTGCCACTAATCCACA GATCTGAAAAAGTACAGCTCTCCAGGTTGATAATCAGATCCAGGCTTTTCTTGTCAGTCCGCTTA TGAGATCAGGAATATGATCTCCCTAAAGCCCCAGATTCTACTAGAGCCGCTGGGACACTGATGAC AA[G/A]GCAATCAACTCATCTCTCAAGCTCACCAGGGCTCACCTTCCCAAG
NI-1245b	201	GT	---			GATGATTTCTGAAGTCTCAGAGCCCTGATTCTAAGCCTCATAAGGAAGAGTAGGTGTTAATGGCA TCCTAGGGCAATGGTAGGTGCTGATGCAGATCTGCTGAGCCATGTGCTGGCATCACAGGGTGGT TTATTAATTTTCAATTTATCATCTGGACAGCCCTTCTTATAACGTACATCCTTGCCTCTTCTGAGGC[G/ T]CTAAGATCCCCAAGGTGGCTCCTGTATCCAGAAA
WI-1245a	85	TC	---			GATGATTTCTGAAGTCTCAGAGCCCTGATTCTAAGCCTCATAAGGAAGAGTAGGTGTTAATGGCA TCCTAGGGCAATGGTAGGT[G/C]GCCTGATGCAGATCTGCTGAGCCATGTGCTGGCATCACAGGGGT GGTTTATTAATTTCAATTTATCATCTGGACAGCCCTTCTTATAACGTACATCCTTGCCTCTTCTGAGGC GCTAAGATCCCCAAGGTGGCTCCTGTATCCAGAAA
WI-1031	149	GA	---			TTCAGTGATAAGGACAGGTCTAGAACAAAGCGTTCCCAACCCTGGCACCATGACAGTTTGGACCAAA TAACCTTTTGTTCAGGGGACTGTCTACACATTGTGGGATGTTTAGCAGCCTCCGTGGCTTCTACCCA CTAGATGCCAGCA[G/A]CACAAACACCCCTCCCCAACAAATCATGACAATGAAAATGTCITTAGACATT GCCAAATATACCTTGTGGACAAAATGGCCCTGATTGAGAACCACCTGGT
WI-5385	110	GA	---			AATGAGTCATTGTGGAGTTAGAGGAGGTTACTGAAAAATGGTGACTCCCAATGGTGGGATTGAAGAGG GAAGTCTCGATAAATTTAACATATGGTTTCTTCCAGGAATCG[G/A]CAATGCTAATCTATTGCTTAA TTCITTTATCAACAGACTCTTTGAATCAATTTAGAGATACTCAGTGACCCCATGGCTAGAGTTCTCTGAC CCCTGCTACGGGAAACATTGAATGCA
WI-5403	199	TG	---			ACCAAACCGTTGGCAAAGGCTCCCCAAGACTCACACCCCACTTTGGTGCTTACCCTATGCCGGGTG GGATTGAAGAAATAACCAATAATAATTGCTACAAATTTTCCAGTAGTTACCAAGGCACAGCCTAT TGAAGAAATCATAAATGTAAACCTACAATGATTGCTCTCTGCTTGTGGTGGCAGGCATAGAGTT[G/]GGCCTACAAACCATTTATCATTTGAACCCCTCAGAAGCATCCAGTTGGGGCT
WI-5801b	157	GA	---			TGGTATTTTTCCTTTTCCCTAAAATGTTATGATTAATTAGTGTCTTTGTAGAAATTTGAAAAAATGTAAA TCAGAGAACACAGAAAGAAAATAAGTATAGTTGAAACCTCTAACAAATTTTAGATTTTAAAGGCCTAG GGAAAGAAAGAGAGCCTGGGAA[G/A]AGGGAATGAGAAAAGCACAACCAAGAAAAAAGTGTGT GGCTTAAGGGAAGCCAAAGGAAAGTTAAGT

VI-5801a	48 A G ---	---	TGATATTTTCCTTTTCTAAATGTTATGATTAATTAGTGTCTTTGT[G]GAAATTTGAAAAAATGT AAATCAGAGAACAGAAAAATAAAGTATAGTTGAAACCTCTAAACAATTTTAGATTTTAAAGGCC TAGGGAAGAAAGAGAGCCTGGGAAGAGGGAATGAGAAAAAGCACAAACCAGAAAAAAGTGTGT GGCTTAAGGGAAGCCAAAGGAAAGTTAAGT
VI-5696	61 C A ---	---	TTCTATTTAAATCCTGTGCCCCATTGCAAGACTGCATTAGTCTGCATGAGCCTTAGTTTC[C]A]TAA AAGCCCCCTCACACCGAGGACAATGTTCAAGAACTAAATGACTGCAGGTGAGCAATTCCTGTATTA TACAACTGGGACCACAAAGATGACTTTATAATAGTGGCAAGAGACAATCAGGCAGACTGGGAGGACC TTATAATAGATTATAAGGCTGTGGTGAGTTATTTTAACTT
VI-7461	153 C T ---	---	TATTACTAGGTTTCATAGAGCCCCGTTGTATGATAAATAGCCAAATAGTTAAAGAGGCTGCAGGCC AATTCTAAGCTCCTCACTCCCTCGAACCCAGCCTCAGAGATGACACTTAGGCTGCACATTCCTCTG TGGCAGGACTGTGTCT[C]T]GTTCCCTGTTGGGTCCCCGGAACCCAGTGTGGTGCCTGGCACAGAG GAGGCCCTGAGTAGCATGTGCTGCA
VI-9716	221 G A ---	---	AGAAGACAGGAGCAGCTGGGATCAAGGACTGATAAATCTGAGGCTTTAATGGTCCCTGTCTCTAAC GCTTTGGTACTTCTCTTCTGAAGACCAACCCCTTCAAACCTCAGAACACAGGCAAGATGCAT ATTCTGTAGTTTTCAGATGTGTACTTCTTACATCTCGAAACCTAGATGAGTTAGGCTCTCTTTCATCT CAATTGAAAATTTCTAGAA[G]A]AAAAACACCTAATTGGCTCATCTTGGATCA
VI-9760	49 C T ---	---	TTTTCGTTAAGTCTTGTGAAGCCACACAGAGTGTACTCTCTTTAC[C]T]AAGTGTTACTTTGCA TATATTTATGGGGATGATTCTATCCCTACTTAAGATTTCCTCTCAGGTAAATATTCATTTCCCT TTGTTCAAGGAGTTTCTTATTTGGCCTTCTTTCTAAACCCCTTAACCATCTGCTTATTCCTGCTTGACA CATGCTATTTAATCAAGGTGACATT
VI-9855	31 A C ---	---	GAAAACTCGTTGGCTCAAAGGAACTGTAGI/C]AAATTCCTTTTATTTTGTGTTTTTAACTC AAAGAGTGGAGTTTGCAATTGACCTTGTGATGGCAGCTGCTCTTTTGTGTTGGTGAATCCTCTAGT GGGCACCTTGC AAAAGCAATTTTAGAGCAAGGTGGTGGCATGGAGTTGTGTGAGGTTGCTGAAAAAG TAGCAATGGAAGAAAGGTTAATGGA
VI-10312	41 A G ---	---	AAGCCCCAGTGGGAAAAGCAGACAAAAACACTCCAAGAAATACI/G]AGATATAAAACATCATCATCA GTAGAGATGGGATGACCTAGGAGGTCTGCTGATGAGGGCATGTCAGACCAAAAGACATTTGGGTCT TGAGGGTTGAATAGGAGTTTGTCTGGTGAGTCTGCCAGTCCCATAGTAGGTGTTCCATAAATAAAC AGTGACTAACTGAGGTAGAGTCACAGAGAAATTTCA
VI-11152	179 C T ---	---	GATTCCTTGCAGCATGCAGAGCAGATACGGCAAGGCATCTTGGGCATTTGGAAGGAACGAGCCCTA ATTCATAGAAACAGACTCTACAAAGGACCAGTTAAAGGTCTCGCACCGGACTGGGTGGCCAAAG TCAGTCAAGGCATAAAGGGGACAAAGTGGGACAAAAGGCTTGTCA[C]T]CTGTGCAGAAACATTGAA AACAGCCAGTACATGCCACTGATAGA

1/1-1968	167	A G ---	---	TTGTGAGGAGCTGTAAAGCTGAAAGAAATAGTCTCTGCTGGTCTTTGGTGGAAATGGATGAGTCTCTTTACAAAATTTTCCCTTGGCATGGGTGTTATGTTTAGAATCATGGAGTTGGAAGACTTAGATTCAATTTGGGGCTGTACAGTTTACTGGAAGTTGT[A/G]TGAACCTTGAGCAAGTGTCTCTTAATGTCTCTCA
VI-4701	198	G A ---	---	GCCTCAATGCCCTTCCCTGTAA GGGTTCATTTAACAGCCTTCCCACCTGGGTCTCAGATTGCACGGAGATGTAAAAATAGGAAGAGATAGAAAAATGGTGCCCACTATTGACTTGATAACACCTACAAAACAACACATTAACACTCTCCCACTCTACCCGCCAAAGTCTACCTTTTGGTCTTTTATTCTGCTAATGACCATACTATTTCCCAATTAGA[G/A]CCATGTCATTTTTCAGAAAAGCAGTATA
VI-4823	164	C A ---	---	TTTATCTTCCAAACCATGTGTGTTTCTTCACATACTTACGTAATTTAAATCATGTCAATTAATTAATGACATTAAACCTGATCTCTAAGAAATTAACCAAAAGCAGTACACTAAAATAGCCTTTGTGTCCATCTTTGTATTCCTAAA[C/A]AAAGAAAAAGTGTCTTTTGTGCATCTGCCCTCTCTGTCTTCTCTGTTTCACCTCCCTGATTTCCCTATTCAGCAATCAATGATTA
VI-4860	72	A G ---	---	AAAAAACCAACTTCATTTGACATTTCTAAGAAAGATAAAGAAAAACAACGATCCACTGTGTGTTTGCTTGATTT[A/G]GGAGATAAACCTGATCTCTAAGAAAAATTAACCAAAAGCAGTACACTAAAATAGCCTTTGTGTGTGTTTTCAGGAAAGAAAGCCAACTCAACTAAGTTGCTAAGAAAAATATGTTTCATATCACTCTAACTTCCACATAGAGCATTAAATAGCA
MI-9705	111	C A ---	---	TGAAGGACCAGTTCGAATGCCCTACCAAGGTAAAGTAAATCGGAGGGGCGAGGAAGTAGGAGTTGCTTCCGGATGTTGCATAAATTCAGGTTCTTTAAGGAGTTCGGCTGCC[C/A]AAAAATGTTAACACTGATGCTGTCTACAAACGCACATAGAAATCGGTGTAGATTGCGGTTCTCTAGTAAGTAGCTAATGTTTAGATA
NGR-4004Z48	177	A G ---	---	TGATTGTTGAATTAATTGTTGCTGTGTTTGGTG CAATAATCTCTGCTTAGAAAGTTGCTCTAGGGCCCATGGATTTCATGTAAGGGTGGGCGAGGGTGGACTGAAGATCTGTTGGCAGGCTCACAGAGACGGGGTGAGGGGAGAGATCGTGGGTTTCATGAGATCCCATCTTGGGCAATACGGTTATCCCGTGTCTTCATACGCCACAGA[A/G]TCTCCAAATTCAGGGGCTCCC
J17579	34	T G ---	---	GTGGGATGGTGGAGCCCAATGAAGACCAGGTAGATGATGCCACCTAGAGATG GGGATTCAATGTGTCTCTCATCCAAATAAGCACT[G/C]CATGACCTCAGCCCCCATACTCTTTCTCCC
WI-7747b	88	T G ---	---	TATGTTCCCAAGAGACAGAAATAGACCTGGCCCCCTTCTCTAGGGGATCACAATATTGGAAGGATGAGGACTCCAAACAGCCAGCTCCCATGCCAAATAGAACGATGAGTGTGGGATCAATTTCTATGGGAGCC
				TGGGAGAGGGATCCTTCTAGTTGA GTGAGAGCGAGGCTGAGCCTACAGATGAACCTCTTCTGGCCTGCTTTCGTTAACTGTGTATGTACATA
				TATATATTTTAAATTTGATT[G/A]AAAGCTGATTACTGTCAATAAACAGCTTCATGCCCTTTGTAAGTT
				ATTTCTGTTTGTGTTTGGGTATCCTGCCAGTGTGTTTGTAAATAAGAGATTGGAGCACTCTGA
				GTTTACCATTGTAAATAAGTATATAATTTTTTATGTTTTGTTTCTGA

VI-7747a	44 T C ---	---	GTGAGCGAGGCTGAGCCTACAGATGAACCTCTTTCTGGCCTGCT/CJTTCGTTAACTGIGTATGAC ATATATATATTTTAAATTTGATTAAAGCTGATTACTGTCAATAAACAGCTTCATGCCTTTGTAAGTT ATTCTTGTTGTTTGGTATCCTGCCAGTGTTGTTGTAATAAGAGATTTGGAGCACTCTGA GTTTACCAATTTGTAATAAAGTATATAATTTTTATGTTTGTCTGTA
VI-7189	197 T C ---	---	TCCAGAAATTTCCCTTCAGCTCAATTTGTCTCTCACAAATTAAGGGAGTAGGTTAAGTGAAAGGT CACATACCAATTTTCCCTTCAACAAATAATATTTTACAGAAGCAGGAGCAAAATATGCGCTTT CTTCTAAGAGATATAATGTTCACTAAATGTGTTATTTTATTAAGCCTACAACATTTTTC/JAG TTTGCAATAGAACTAATACTGGTGAAATTTACCTAAACCTTGGTTATT
VI-7850	57 G A ---	---	AGCCCCAGCTGGACTCATGGATGTGACCCCTTGTCCCTGCTCTTTCTGCCCTCTGG[G/A]CTCATGTA TCTGCGGAGCTCTGTACCTCTGTGGTGCCATCTCTACCTCTGACACAGACTGCCCTTGAAGCT GAGAGGCACAGGCAAGGAGCCAAAGGACCACAGAGCCTCAGCCAGCCAGGATCCGCTCCTCATTTT ATTGGTGATGATGAATGGGAATGAAATCAGGGGCTGTCTACTAGAGCC
II-7907	69 G C ---	---	CTCTCTCTTCATCCCATCCCCCTAAATAGGTCAGGTGAGGGAGGCTGGGAAGAGGTTGGGAGGAGG G[G/C]JAGAAAGTGAAGGAAGATAGGAAGATATTACCTCTCTGTTATTTTTTAAAGAAACATTGTTT GGTGGCAGCAATCTCCCTGTCCCTATCAGTGTAGAGGCTAATTTATATCTATAAATATATTAAAA AGCAAGTCAAACTTGGATGTATCAAGGTAAAAATTTATGTCAAAAGTTTAAAT
II-7919	242 T C ---	---	GAAGGCAGCTGGATCATTCCCGCAGTCTTGGGCAGCGCTTGTCTGTTGAACACAGAGCTCCTCCT CAGGGCCTGGCACTCACCTCTATTCTGTATGATGATTTGGTTAAACACTGTCAATAATAGAGAT GTGCCAGATTTAGATTTTCTTACCCTAATCTGTTTAAATTTGTAACCTTATCCATTTGAAAGTGCA AGCCCATTCAGATAAGCTATAATCTGGTCTTTAAGGAAT/CJACAACTTT
II-7928	101 T G ---	---	CTCCCTTCCTATGTCTCTCAGCAGCACGTTGGGCACACTTGTTCATCTCTGACCGTTTGTGGGCTA TTCCCTGCGAGTGCAGACATCGTCAAAATTCAT/GJACAAAGAGGAAATTTTCATGCAGAAAGCTGTA TGCAGGATGCTCAGTGATGTTTGCACCTTAAAACTGAAATTCAACTCTTTATATAGGATTTTCTTTT CTATCTCCATCTCCTCATTAAAAAATACGTACATTTTCGAGGTAATGGTA
II-7936	131 T A ---	---	TTTTGAGTCAAGACTTAAAGGGCCCAATGAATTTATATATACATACTGCATCTTGGTTATTTCTGAA GGTAGCATTCCTTTGGAGTTAAATGCACATATAGACACATACACCCAAACACTTACACCAAAC[T/A] ACTGAATGAAGAAGTATTTGGTAACCGGCCATTTTGGTGGGAATCCAAGATTGGTCTCCCATATG CAGAAATAGACAAAGTATATTAAACAAAGTTTCAGAGTATATTGTTGAA
VI-7944	99 T C ---	---	TACACGTTCCAGCCCGTTGCCCACTCATCTGCGCGCTTGTCTTTGGTGGGGGCGAGATTGGTTGG AATGCTTTCCATCTCCAGGAGACTTTTCATGT/CJAGCCCCAAAGTACAGCCTGGACCCCTGGTGTG TGTAAGTAGTAAGATTACCTGAGCTGAGCTGAGCCTGAGCCAAATGGGACAGTTACACTTGACAGA CAAAGATGGTGGAGATTGGCATGGCAATTTGAACTAAGAGCTCTCAAGTCA

NI-7805	101 A G ---			TTTCTAGGCTGTACAGTCTGATGATGATTTTTTATAAATATTTTACATCTTTGTGAATTTGGATCTT TTTACTTTGAGCATATATTTAGAAATATGTGTG/GTGTAAAGGATCTCCACAATGTCTGCAGTGTG AAGGCAGGTTTCATTGTGAATAGTTTAACAGTCAAGGAAGGCTAACTGGTCAGTATTAATGTGTAGC CCTACCAAAAATAGCCAGTAGTAGTCTGAAAATGAAAAATAAATGAAGTAT
WI-7416	137 G T ---			GGCCAGGAGATTAGCAACAAGGATTCTGTACTTACTTTGCCCCCTTTTATCTTTCCCTCTTGCCC CAGTCCCTTCTCTCCAGCTTCATGTGAAGCTCTGCACAGACAAGACACTCAGTGTCTTGCCAGTGT [G/T]CTACTCCTCAGGTGCAGCATACATAACCAGTAAGAGACTAAATCTGCAATATATAAAGAGCTC CTACAAATCAGTAACATGAAGAACACTCAAAAATGGCAAAATGTCATCAG
WI-140	252 C T ---			ATTTGAAGATTGGAGGGCTTTGCAGAGGAAAAATAGATTTCAATTGGATCCCCAACTATAATGACA AGTTTTTAATTAGGTGTGATCAAGGCTTCTAAAAGTGAATGCAAGTTGTACCAGTAAAGTTTATA TCTTCCATTGAGCCAGCTCATTTGCCAGAAAATTCAGGTGAGTGGATTGGCCAGACTATCTGGCAAG GATGAAAATTTTAGTTTAAAATGTGTCTGTTGTTGTCATTGTCCTTC/
WI-198	218 C T ---			GAGGTCTTTCAGCAACATGGAAGCCCTACTGCTTCAACCCCGAGTCCCCGATCAAGTGTGGCACC CATGATGGAACCTCTTGCCATGGTTTAGTACCCCTGGACCAAGTAGTATCCATCCTGACTTTAAAA TTCTAAACAGCCTTTGATGGGACAATCTCTGCTAAAGACTAACCACTTCTTATCTTCTCAGCTA CCTGCTTCCCTTTCTC/TGTTTAAACAAAGCATAGATAATCTGAACAACCT
WI-205c	146 T C ---			TTTCATGGTCCCAAGACAGATTTTAAAGAAAGAAAAAAGCCCTCATCTCCTAACTATGACTTGGTCGG AAGCCAAGAACCCTACTTCAACATTTGACCCATAACCTTCTCTTGAGATGATGGCTGACTTTTTCAT GCATGAGTTTGT/CJCCAAAGGCTTGATGGGAAAATCTCAACATTTGTACCTAAGAAAGAGGATGT ATCTTACTTTGTTTAAAACCTGCATATGCCCTTTATTTTGTAGTCCC
WI-205b	146 T C ---			TTTCATGGTCCCAAGACAGATTTTAAAGAAAGAAAAAAGCCCTCATCTCCTAACTATGACTTGGTCGG AAGCCAAGAACCCTACTTCAACATTTGACCCATAACCTTCTCTTGAGATGATGGCTGACTTTTTCAT GCATGAGTTTGT/CJCCAAAGGCTTGATGGGAAAATCTCAACATTTGTACCTAAGAAAGAGGATGT ATCTTACTTTGTTTAAAACCTGCATATGCCCTTTATTTTGTAGTCCC
WI-234	165 G C ---			GAAGACTGAGTTTCCAGGAGGTGCAGCCGTTTCTCTCGGGCCATATGGCTAATAGGAGCTTGAGCA GGGATTCAACCTGTTTGCAACCCCAAGTNCCTTCCAGAGGCTCTCAGACTACCTCCTCCATCTCCCCCT CTCCCCCACAACACAAATACAGAGATTG/CJAATTCAGGAGCCAGTTTCTAGGTGGCTTTGAGC AATCATACACAGTAATCTCTTGGTGCTTAGTTTCTCAATGGGAAATGG
NI-276b	25 A G ---			AGCTTTTGAATCCAAAAACCACATJAG/CJCTTGACTCTCTTATCCTCCTCTTGTGTAACATCTATCC CTGAGGCAGAAAATACAGAACACCCCTGTGGCTGCCCTGAACGGAGGAGGATGGGGCGGGGAGACAT CGGTCAATGTATCAAAAGCATCTCTCTGCCGTGAAGACCTCTCCTGAAAGACATGAGCTATTAGGAGC TCTGGCAAGGGCTTTGCTTATCCTCTCTGCTATCCCTGATGACTGGGCAA

WI-276	25 A G ---			AGCTTTGAAATCCAAAACACATAGJCTTGACTCTCTTATCCTCCTCTTGTGTAACATCTATCC CTGAGGCAGAAAATACAGAACACCCCTGTGGCTGCCTGAACGAGGAGGATGGGGCGGGGAGACAT CGGTCAATGTATCAAAAGCATCTCTCGCTGAAAGACCTCTCCTGAAAGACATGAGCTATTAGGAGC TCTGGCAAGGGCTTTGTCTTAICTCTCTGCTATCCCTGATGACTGGGCAAA
WI-427	59 G A ---			TTTTCCCAATCCACAGGTAAACATAATATGGATGTATAGAATTTAGAACTACTTCCG/AJGTTT TTTCCCTGGGAAATATTCACAAACATTTGTGGTCTGCAATCAGGTTAAAGACATAGTGTGCCA TTTGTCATCAGACAGGTAGAGCCTGACTCTGGCAGGATTAGCTACCACTAGCTGTGAGACTTTATGT ATTCAATTTATAGAGCCAGGGCTTGTCTGTGACCCAGCTTTCAGTGCAGT
WI-562c	106 T C ---			CTCTCACTCCAACTATATTGCTTACTTAATGGTTACAGATTAGCCCGAGAAAGGAGCCTGTCTC AATACACTAGATATAGTTACTGTGATTATATATTTAAIT/CJAAATGGTCTTTTATTAACAAAAA AAAGNTATCTAAAGAGAAACCAATAATCTCTCAGGTAATTATGGCCACAGCCCAAAACCCAGTCT TTCTAAACCTAAAGACTCTCATAAAGGCCCTATCACATAACTTCTCCACTTCC
WI-562b	106 T C ---			CTCTCACTCCAACTATATTGCTTACTTAATGGTTACAGATTAGCCCGAGAAAGGAGCCTGTCTC AATACACTAGATATAGTTACTGTGATTATATATTTAAIT/CJAAATGGTCTTTTATTAACAAAAA AAAGNTATCTAAAGAGAAACCAATAATCTCTCAGGTAATTATGGCCACAGCCCAAAACCCAGTCT TTCTAAACCTAAAGACTCTCATAAAGGCCCTATCACATAACTTCTCCACTTCC
WI-562	103 T C ---			CTCTCACTCCAACTATATTGCTTACTTAATGGTTACAGATTAGCCCGAGAAAGGAGCCTGTCTC AATACACTAGATATAGTTACTGTGATTATATATTTAAIT/CJAAATGGTCTTTTATTAACAAAAA AAAGNTATCTAAAGAGAAACCAATAATCTCTCAGGTAATTATGGCCACAGCCCAAAACCCAGTCT TTCTAAACCTAAAGACTCTCATAAAGGCCCTATCACATAACTTCTCCACTTCC
WI-597c	141 A G ---			GTGTAATTTGGTGGCTTTGCAACTTTTCCACAGTAACCTTTAGAATNTNAAAGGTGAAGGTAAGG ATGAGGAAGAAGAGGGNGTAAGAAACAAAGATGTCTATGTTGAAGAAGTATCCTTAGGATATTCT GATACATG/A/GJTAATGACCCCTCCATGACTCTGGTACCTCATCATACCAATGTGAGAAATTATTAAC TTGATCTAATATTCTTCACAACTAATATACCTGAGAGAAATAAGTCTATTTAAT
WI-597b	141 A G ---			GTGTAATTTGGTGGCTTTGCAACTTTTCCACAGTAACCTTTAGAATNTNAAAGGTGAAGGTAAGG ATGAGGAAGAAGAGGGNGTAAGAAACAAAGATGTCTATGTTGAAGAAGTATCCTTAGGATATTCT GATACATG/A/GJTAATGACCCCTCCATGACTCTGGTACCTCATCATACCAATGTGAGAAATTATTAAC TTGATCTAATATTCTTCACAACTAATATACCTGAGAGAAATAAGTCTATTTAAT
WI-597	136 A G ---			GTGTAATTTGGTGGCTTTGCAACTTTTCCACAGTAACCTTTAGAATNTNAAAGGTGAAGGTAAGG ATGAGGAAGAAGAGGGNGTAAGAAACAAAGATGTCTATGTTGAAGAAGTATCCTTAGGATATTCT GAT/A/GJCATGATAATGACCCCTCCATGACTCTGGTACCTCATCATACCAATGTGAGAAATTATTAAC TTGATCTAATATTCTTCACAACTAATATACCTGAGAGAAATAAGTCTATTTAAT

NI-611	66 G C ---		TTCAAAATTTAACACCATGGGTATATTAAATTTNGCTCTATCCATAGTTCTAACCCCTCTTCTCTG/ CJACAGTGAGACACCTGCCCTTCTATTGCTTACGTTAATTAACGTAATTCGATCAGTCACCCATCTGGA ACCAAGGTTTTCATTTCTGTGCTGACCCCTCCCTCCTACCCCTACTTGGGCTCTGACTTCTTCTCTGGGCT GAACCTTCTCTGTGTGGCTGCTCGCCCTTCTCTGCTTGGGCTCCCAATAC
NI-681b	156 A G ---		TGAAGCCCTCTCTCTATACCCCAAGTGCTTTTATCTTAAATGCTGTGGTGCAAGTATCTACCCCTTA GGGATATTGTGAGAAATCAATAAGTTTCATACAGGGGAAGCACCTTTGNCCTGGTATGTCATAAGCAA TCCATAATTGTTATAGCTATT[A/G]TTATACTATGGCACCATTGGGACACAGATTATATATGTCAGA CACCACGNATGTCCTTTAAGATATGCAGCAAGCACAAATCTGTCATGGTTT
NI-681	156 A G ---		TGAAGCCCTCTCTCTATACCCCAAGTGCTTTTATCTTAAATGCTGTGGTGCAAGTATCTACCCCTTA GGGATATTGTGAGAAATCAATAAGTTTCATACAGGGGAAGCACCTTTGNCCTGGTATGTCATAAGCAA TCCATAATTGTTATAGCTATT[A/G]TTATACTATGGCACCATTGGGACACAGATTATATGTCAGA CACCACGNATGTCCTTTAAGATATGCAGCAAGCACAAATCTGTCATGGTTT
WI-867b	119 G A ---		AATCTTAACAGCCCTTTTGATGCCAAAGCCACTTTCAGTCTTAATCTTTTGAGCCTAAGATCAGTG CAACCCCTCAAGGCTCCCGAGTATCTGGCACATCTTCCCTTTTCATCTCC[G/A]TTGTGTGTTGGC CAAATAATATCTCCCGAGGACGTCCTTCTAATCCCTGAACCTGAGAAAATGTTATCTTATGTC AGTGCTATGGTTTGAATGTGTCCTCCCAAGCACACATTAGAACTTA
WI-867	113 A G ---		AATCTTAACAGCCCTTTTGATGCCAAAGCCACTTTCAGTCTTAATCTTTTGAGCCTAAGATCAGTG CAACCCCTCAAGGCTCCCGAGTATCTGGCACATCTTCCCTTTTC[G/J]CTCCGTTGTGTGTTGGC CAAATAATATCTCCCGAGGACGTCCTTCTAATCCCTGAACCTGAGAAAATGTTATCTTATGTC AGTGCTATGGTTTGAATGTGTCCTCCCAAGCACACATTAGAACTTA
NI-867	119 G A ---		AATCTTAACAGCCCTTTTGATGCCAAAGCCACTTTCAGTCTTAATCTTTTGAGCCTAAGATCAGTG CAACCCCTCAAGGCTCCCGAGTATCTGGCACATCTTCCCTTTTCATCTCC[G/A]TTGTGTGTTGGC CAAATAATATCTCCCGAGGACGTCCTTCTAATCCCTGAACCTGAGAAAATGTTATCTTATGTC AGTGCTATGGTTTGAATGTGTCCTCCCAAGCACACATTAGAACTTA
VI-871b	123 C G ---		TCATCAGACCTGAGATTCAGCATGAAATCTACCAAGGTACCACAAATGTAACCTGTCCAAAACGA ATCTCAGTTTCTGCATATGTAAATGGGAATGATAAGAGCACCCACCTACCTCATG[C/G]AACTGTT GAGAGAAATAAATGAGACATTGTAAGTAAAGTTTGTAAATGCACGTGTTATGGCCTGAATTGTGTACCC TAAATTCATATGTTGAAGCCCTAACACCCCAATATGNCCTGTTATGTACATAA
II-871	123 C G ---		TCATCAGACCTGAGATTCAGCATGAAATCTACCAAGGTACCACAAATGTAACCTGTCCAAAACGA ATCTCAGTTTCTGCATATGTAAATGGGAATGATAAGAGCACCCACCTACCTCATG[C/G]AACTGTT GAGAGAAATAAATGAGACATTGTAAGTAAAGTTTGTAAATGCACGTGTTATGGCCTGAATTGTGTACCC TAAATTCATATGTTGAAGCCCTAACACCCCAATATGNCCTGTTATGTACATAA

884	198 T C ---	---	AGGTTCTGGACTTGATGCTGGGAAACAATTGGGTGCTGGGAAATCCATTTTGGAGTNTTTCACAGAT CAGTAGAGCCAAATGGGAAAGGTATCCTAGTCCATCCCTTTATTAGGAACCTTTCCTGATCTATTGGGA ACTTCCTCCTAATAGATCAGGAAATCCACCTCATTTAATCATGGACAACNNAAGGAATA[T/C]G ATCCGCGATGCAACATTTATTCACTGAAACATGATGAAATGAACATAAT
921b	205 G A ---	---	CACITCCCAAGGCTCTGGGGANGAGCGGTGGGACGCTGCCGGGAAGCAGTTCGACACTGACTGA TGCTTTGCTGACAGGGCTCTGCTCTGAAGCCGGACACTGCCAGGTGCACACAGGGACAGTTATCTGG CAGTGATGCCTCTCAGCCTGCCCCCAAGAAAGTCTTNGCCAGGAAAGACGATCCATCTAC TCT[G/A]GGGAGAGATCTGACAAATTAATCAGGAGGAAGAAATCTTCCGAG
921	205 G A ---	---	CACITCCCAAGGCTCTGGGGANGAGCGGTGGGACGCTGCCGGGAAGCAGTTCGACACTGACTGA TGCTTTGCTGACAGGGCTCTGCTCTGAAGCCGGACACTGCCAGGTGCACACAGGGACAGTTATCTGG CAGTGATGCCTCTCAGCCTGCCCCCAAGAAAGTCTTNGCCAGGAAAGACGATCCATCTAC TCT[G/A]GGGAGAGATCTGACAAATTAATCAGGAGGAAGAAATCTTCCGAG
945c	90 G C ---	---	GGCTGGGATGAGAGGTCTACTTGGTACTGGAGGTTTCACTGGCTTGCTAGAACTAGNAAAGNA GAAAGACAGNGATTGGCTAAC[G/C]CATGGCAGTAGTGGGCCCCAAGGCCCTGAGTAATAAGAAA AAATCATTAGATAAATGTCTCATGACCAAAACAAGTTCAAACANTAGGTGCAGCACANNNGGTT TTCTCTGGTCATAGATCTCTTAAAGGGAATCATGACAGATTTTCTTGGCTTTA
945b	90 G C ---	---	GGCTGGGATGAGAGGTCTACTTGGTACTGGAGGTTTCACTGGCTTGCTAGAACTAGNAAAGNA GAAAGACAGNGATTGGCTAAC[G/C]CATGGCAGTAGTGGGCCCCAAGGCCCTGAGTAATAAGAAA AAATCATTAGATAAATGTCTCATGACCAAAACAAGTTCAAACANTAGGTGCAGCACANNNGGTT TTCTCTGGTCATAGATCTCTTAAAGGGAATCATGACAGATTTTCTTGGCTTTA
960b	167 C T ---	---	TTGCTTCAAAGAAAGTTCTTGCTCAGGAAGTTATTCTTCAAGCAACCTAAAATGTTTTTGGAGTACAT ATCAAGCACAGGGTTCTGAGCAATGCTTAGGAAGACCATAAAGGTGAATAAATGAGTGTCTTAC CTGAGGAATTTATCAAAGATGTTAAGTTATCTTCTAGAGGTATAAGTATATAGGCATATTCT ATGTATACTAAAGGTGGTATGGCATAAGAGTACATA
960a	155 G A ---	---	TTGCTTCAAAGAAAGTTCTTGCTCAGGAAGTTATTCTTCAAGCAACCTAAAATGTTTTTGGAGTACAT ATCAAGCACAGGGTTCTGAGCAATGCTTAGGAAGACCATAAAGGTGAATAAATGAGTGTCTTAC CTGAGGAATTTATCAAAGATG/AJTTAAGTTATCTCTTAGAGGTATAAGTATATAGGCATATTCT ATGTATACTAAAGGTGGTATGGCATAAGAGTACATA
1121	181 T C ---	---	TCCCACTGAGTATGGCTTCAGTAGTTTATTATGATGTCCTAGGTACATTTGTTTTTATTGTTCTG CGAATTGTTGATTACTTTGGGAGAAATGCTCAACTATAAATATGCTCTGACCCCTTTCTGTGTTT CTTCTAAAGATACAAAATAAATGTAACATTAGACCTCTCAGTAT[C/G]CTGTTTTTACTCTCCTCTG ATTTTTTTTCCATTATTTTATTGCTCTGGCTTCATTTTGTAAATNTG

I-1306b	248	A G ---	---	TTTCTGCATTGGAATAGTTGACITCTATGAGNNGCAATAAATGGACAATCTTGTNGNNNTNG GGCTGGGTGACTGTGCCTGGGTCAITTAGAAGCCATAGAGATGAAAGTAGCCTGCAATAAAGAGGA AAGTGAAGCTAATCTGAAGCTGTGACCTAAGGGNGAGAAGTGCCCTNNTTCTGATGGCTTTTCAGT CTGTGAGTACACTCCTTTGTGAAGGCCAGTTGAAATTTATCTTCCTJAGJGC
I-1306	240	A G ---	---	TTTCTGCATTGGAATAGTTGACITCTATGAGNNGCAATAAATGGACAATCTTGTNGNNNTNG GGCTGGGTGACTGTGCCTGGGTCAITTAGAAGCCATAGAGATGAAAGTAGCCTGCAATAAAGAGGA AAGTGAAGCTAATCTGAAGCTGTGACCTAAGGGNGAGAAGTGCCCTNNTTCTGATGGCTTTTCAGT CTGTGAGTACACTCCTTTGTGAAGGCCAGTTGAAATTTJAGJCTTCCTAGC
I-1307b	118	T C ---	---	GACAAAGGCTGGTACTAGTTCCAAATCCAAATCTATGTACACITTCCTCICACITTTCTCAAGTGGACA GATTTCTGCATTACTGCTGGGTGGGGGAGCAGTGGTGTAGGCAATJ/CJGTGAGATTGCTTT CCTACCCCTCTTAAATGTATCTTNNCTAATTATNATGCTAAACCCGGTACTGTGATCTATCACTGGTT TCTTTTGGGTGTTGTTGCTGTTGTTTCTCCTGTAAAGNTGTTT
-1307	118	T C ---	---	GACAAAGGCTGGTACTAGTTCCAAATCCAAATCTATGTACACITTCCTCICACITTTCTCAAGTGGACA GATTTCTGCATTACTGCTGGGTGGGGGAGCAGTGGTGTAGGCAATJ/CJGTGAGATTGCTTT CCTACCCCTCTTAAATGTATCTTNNCTAATTATNATGCTAAACCCGGTACTGTGATCTATCACTGGTT TCTTTTGGGTGTTGTTGCTGTTGTTTCTCCTGTAAAGNTGTTT
-1325b	169	T C ---	---	GAGAGATGGCCAAAGACAAAGCAGAGGGAGAGAGAGCAACCNCTGTGGTTTATCGCAGCAAGCN ATGCTGTCTCCATACCCAGAAATGAGCATGTGCTCTCTCTATGTATAGATCAGATGACATGGAGAC ATTCATTAGGCAACTACAATGTGCTTGTCTCTCTJ/CJACCCCTCAGAACTTCTTGAGGGGCAGGC ATTATGATTCCTTACATCAGTGGGAATTTGGACTTGGTGAAGTTAGGTT
-1325	165	C T ---	---	GAGAGATGGCCAAAGACAAAGCAGAGGGAGAGAGAGCAACCNCTGTGGTTTATCGCAGCAAGCN ATGCTGTCTCCATACCCAGAAATGAGCATGTGCTCTCTCTATGTATAGATCAGATGACATGGAGAC ATTCATTAGGCAACTACAATGTGCTTGTCTCTJ/CJTTCTTACCCCTCAGAACTTCTTGAGGGGCAGGC ATTATGATTCCTTACATCAGTGGGAATTTGGACTTGGTGAAGTTAGGTT
-1327b	162	T C ---	---	CTACGATAATTAGGTTGGCAGTGAGGGTATTAAAGCTGTGTAGTGAAGAAGTCTGTTATTTGTAAA ACACCAAGTGGGTTTAAATGGAATGCGTATGTGTGAGTNCATATTACGACAGGCTGGGGANGACTC CAGCGACACTATGAGCTGAGAGTCTGTJ/CJGAAAGTTGGGTAGCTACCAAGGCTCCCCAAATGTAGT TCTTNGCTGAAAGTCTCTCTTACTGAAGAGGCAATGGTTCCATCTCTAAG
1327	175	C G ---	---	CTACGATAATTAGGTTGGCAGTGAGGGTATTAAAGCTGTGTAGTGAAGAAGTCTGTTATTTGTAAA ACACCAAGTGGGTTTAAATGGAATGCGTATGTGTGAGTNCATATTACGACAGGCTGGGGANGACTC CAGCGACACTATGAGCTGAGAGTCTGTGAAGTTGGGTAGTJ/CJGTACCAAGGCTCCCCAAATGTAGT TCTTNGCTGAAAGTCTCTCTTACTGAAGAGGCAATGGTTCCATCTCTAAG

WI-1341b	136	GA	---			TATCAGCATGATTGGCTGTTGGACACAAAGTCAATTTGTACTTTTGNNGNNTCCCTTTTCNTTT ACCTGATCCACTATCTCTCAAGATCANGTTCAAATTTGGCTTNCCTTTGTTNAATTATACCCAAAGC [GA]GGATTGATGGATCTGTTATTTTCTGCTGCTTGAACACGACAGTCTCTCTGNGAGTNTG GTTTCAGGATTGCTCTGTTTCCCGAGCCCACTTGCACTTAGCAAGTGT
WI-1349e	192	GC	---			CTGACAAATGTCATATCTCACTCCTAAACCCACAGGTCATAGAATCAGTTAGCTACCCCTCAATCCA GCAACCCAGCTTTGAAATGGATGCAGGCGAGGTGGTAGGTGCTGGCCTGTCAGTTTGATATATATG GCAGGTGCTCAACAAATGTAGATTGAGTGAAGGATAGTCTGAATTTCCATCTCTGA[G/C]TTCAAA ATAATTTGAGAAAATATGATAGAAATTTGGAAGTACTAGATTTTCAGAAAAATA
WI-1349d	264	CA	---			CTGACAAATGTCATATCTCACTCCTAAACCCACAGGTCATAGAATCAGTTAGCTACCCCTCAATCCA GCAACCCAGCTTTGAAATGGATGCAGGCGAGGTGGTAGGTGCTGGCCTGTCAGTTTGATATATATG GCAGGTGCTCAACAAATGTAGATTGAGTGAAGGATAGTCTGAATTTCCATCTCTGAGTTCAAAATA ATTTGAGAAAATATGATAGAAATTTGGAAGTACTAGATTTTCAGAAAAATATGAT
WI-1349c	192	GC	---			CTGACAAATGTCATATCTCACTCCTAAACCCACAGGTCATAGAATCAGTTAGCTACCCCTCAATCCA GCAACCCAGCTTTGAAATGGATGCAGGCGAGGTGGTAGGTGCTGGCCTGTCAGTTTGATATATATG GCAGGTGCTCAACAAATGTAGATTGAGTGAAGGATAGTCTGAATTTCCATCTCTGA[G/C]TTCAAA ATAATTTGAGAAAATATGATAGAAATTTGGAAGTACTAGATTTTCAGAAAAATA
WI-1349b	264	CA	---			CTGACAAATGTCATATCTCACTCCTAAACCCACAGGTCATAGAATCAGTTAGCTACCCCTCAATCCA GCAACCCAGCTTTGAAATGGATGCAGGCGAGGTGGTAGGTGCTGGCCTGTCAGTTTGATATATATG GCAGGTGCTCAACAAATGTAGATTGAGTGAAGGATAGTCTGAATTTCCATCTCTGAGTTCAAAATA ATTTGAGAAAATATGATAGAAATTTGGAAGTACTAGATTTTCAGAAAAATATGAT
WI-1349	264	CA	---			CTGACAAATGTCATATCTCACTCCTAAACCCACAGGTCATAGAATCAGTTAGCTACCCCTCAATCCA GCAACCCAGCTTTGAAATGGATGCAGGCGAGGTGGTAGGTGCTGGCCTGTCAGTTTGATATATATG GCAGGTGCTCAACAAATGTAGATTGAGTGAAGGATAGTCTGAATTTCCATCTCTGAGTTCAAAATA ATTTGAGAAAATATGATAGAAATTTGGAAGTACTAGATTTTCAGAAAAATATGAT
WI-1403b	57	CT	---			TGGTATTGGAAATGGGTTTCAGACTCCGGGTTCTGGCTTCTGACCTTTGGTAAGTTG[C/TT]CCGAAT GCCACTTTATAAGTTAGAGGTATTACCTTGGAGGGGGGACGTAGAGTAAGCCATAAAATATACGT AAAGTTACATCAACATAATTCTTGGCCTGCATCATGCAATTGGCAATATGTCACATAGCTGTCTCA TAATCCCCAAAGTGCCAAAAGGGTTGTATCTGATTGT
WI-1403	58	T C	---			TGGTATTGGAAATGGGTTTCAGACTCCGGGTTCTGGCTTCTGACCTTTGGTAAGTTG[C/TT]CCGAA TGCCACTTTATAAGTTAGAGGTATTACCTTGGAGGGGGGACGTAGAGTAAGCCATAAAATATACG TAAAGTTACATCAACATAATTCTTGGCCTGCATCATGCAATTGGCAATATGTCACATAGCTGTCTC ATAATCCCCAAAGTGCCAAAAGGGTTGTATCTGATTGT

II-1417c	31 C T ---			CAGGCCGGAAGAGATTCACGTGGAGAGATGTC/TTTGCCAGGGCGGCAGATGTGAGCCACGGG GGTGACAGCATGCCTGCTGGCATTGGAGGGCCCCAGAGGAATCCAGTGGCCCTCTCAATGACTTG GGTCTCGACTTCGGAAGTTAAGGGCTCGGCTTCAAAAGCTGGTCCGGTTTGAGGCGGTTGC AGCGAGGCCCTTAGGTCGTATTTAATGTTTGCTTTGTAGAAAAGTCGC
II-1417b	31 C T ---			CAGCCGGAAGAGATTCACGTGGAGAGATGTC/TTTGCCAGGGCGGCAGATGTGAGCCACGGG GGTGACAGCATGCCTGCTGGCATTGGAGGGCCCCAGAGGAATCCAGTGGCCCTCTCAATGACTTG GGTCTCGACTTCGGAAGTTAAGGGCTCGGCTTCAAAAGCTGGTCCGGTTTGAGGCGGTTGC AGCGAGGCCCTTAGGTCGTATTTAATGTTTGCTTTGTAGAAAAGTCGC
II-1729	172 A ---			CCATGAGCAACAGCATGTTCTACTCTGTGATGTGTATGTTAGGGGCATGTATCTGTATTTCTT TTTTATTCTCTCCAAAGAAATTTCAATATGCAAAACATTTACGGCAATGCAGCTCGTAATAAAGA TGTTGGAGAACTGAAAAGAGAGCTTACATGCACCCCAATAGCAAAACTCTCCACACATTTCCAGCA GATGATGTGCTCTCCGTTGGINACCTTCTCCACCACATCACCTGTGTTTT
II-1732b	122 T C ---			TGCCTTACTCTTTGTTCAATCCCAACCATTAATTTGTAAATTTGAACTTCTAGGAGGTTAGAAGGA TATGCTGATCAAAAAGGGGACATATTCAGGAGTNTCCCTGGGTCAACCCCTTTC/ATTCAGTCT CTGCCACATGCTAGTAACTGTGAGTGATGGTGATCAGTATAATCTGAGCCCTCCCAAGGTACAGC CTTTCACACTATTTCATCATATTGGCTAAGGTATTCATCATATTGGCTAAG
II-1732	114 C T ---			TGCCCTTACTCTTTGTTCAATCCCAACCATTAATTTGTAAATTTGAACTTCTAGGAGGTTAGAAGGA TATGCTGATCAAAAAGGGGACATATTCAGGAGTNTCCCTGGGTCAACCCCTTTC/ATTCAGTCT CTGCCACATGCTAGTAACTGTGAGTGATGGTGATCAGTATAATCTGAGCCCTCCCAAGGTACAGC CTTTCACACTATTTCATCATATTGGCTAAGGTATTCATCATATTGGCTAAG
I-1750	97 A G ---			GCGAATTTAATGACTCCAAAGGTAGTAAATTCCTTTCCCAAAAGGTTTAAATCTGTGTGGA CATAATGTTTGAATTTGCAGTTCACCTTGG/AGTTTAAAGGTGTGCTGTTTCTGGCAAGAGTCAG TGGAGTGTCCGGGAAAGGGCTAAGTCTTTGTAGTCAGACAAACCGGCTTGCGAGTCTGACTGAG CTACATTCACCTTTATGATCTCCAGCAGGTTCTTCCA
-1780	31 A G ---			GGTACACAAAGAAATGCTTCTGGAAATCTAC/AGTTAGCGCCCTTAACATTTTGGTGAGTTAATC TGTACATGTGTAATGTGAACCCACCATGAAGCTGGGCAAGAACAAATTCCTAGGAAAGTACAATTAC TGGGAACTGTAGAACAAATAATTCATAGTTTACACATAGCTGGGAATCACTCATGTCCCATCA ACTGGAGAGACCTTGTGAGTACAGAGGACATTCAGAAATAATCATAAAAAT
1803c	77 A G ---			CCACTCAGTAATAATAGTGTGGAGATAAGTATATGGTAGGCACATAATAATTTTTCAGGCAGAA CCATTATGAT/AGTAGTAGGTAGAGCATCACACTTGGGAGGACATATTCGGAGTNAGATATCCTG GGTGCTAATTTCAAATATATCTACTAAAGCATGACTTCTAGAAAATTAATTAATCTTGTCTCTCAA GGAAATGGGAATACCTATAATACAGTCTTATTGAGGAAATAACTGGAATCA

VI-1803b	77 A G	---	---	CCACTCAGTAATAATAGTGTGGAGATAAGTATATGGTAGGCACATAATAATTATTTTCAGGCAGAA CCATTATGATAGAGTAGGGTAGAGCATCACACTGGGAGGACATATCTGGAGTNAGATATCCTG GGTGCTAATTTCAAATATATCTACTAAGCATGACITCTAGAAAAATTACTTATTACTCTTGCTCTCAA GGAAATGGGAATACCTATAATACAGCTTATTGAGGAAAAATACTGGAATCA
VI-1837b	112 C T	---	---	TTTACTGGGATTTTTCATAGCTGATCATAATTTACCAATTTGATAATTCACITCTTTTCCCAGGCTCA AGGCTGATAAGCAGTTATCCAGATAGAAATAGACCCGTTTATAC[CT]CTGTGCCAGITTTATTTTT AAGGTTTTTTTTCATTGCACCTGATGCCAAACAAACCTCAAAAGACCTTGAGTGAATTTTGAGCT CGTGTAACTGGGAAGTCTGGGAACGTTTAGCTTCTGCTGGCT
VI-1837	112 C T	---	---	TTTACTGGGATTTTTCATAGCTGATCATAATTTACCAATTTGATAATTCACITCTTTTCCCAGGCTCA AGGCTGATAAGCAGTTATCCAGATAGAAATAGACCCGTTTATAC[CT]CTGTGCCAGITTTATTTTT AAGGTTTTTTTTCATTGCACCTGATGCCAAACAAACCTCAAAAGACCTTGAGTGAATTTTGAGCT CGTGTAACTGGGAAGTCTGGGAACGTTTAGCTTCTGCTGGCT
VI-1840b	79 G T	---	---	TCACCTAGGGAGGTCGCTAAAAATGTAGCTTCATTAAAGACACCTCAGACCTATTGGATCAGGATCTT TCAGGTAGCACT[G/CT]GAGAAATCTGAATATTCAGCACATACAAAGTGTGACAACCACCTTGTTTAGTAT ATTTATCTCCAGAGTGTTTGAATTTACTAAAAAGTTCTTAAAGAGCCATGAAGAAATTATAAGACT ATCGCA
VI-1840	79 G T	---	---	TCACCTAGGGAGGTCGCTAAAAATGTAGCTTCATTAAAGACACCTCAGACCTATTGGATCAGGATCTT TCAGGTAGCACT[G/CT]GAGAAATCTGAATATTCAGCACATACAAAGTGTGACAACCACCTTGTTTAGTAT ATTTATCTCCAGAGTGTTTGAATTTACTAAAAAGTTCTTAAAGAGCCATGAAGAAATTATAAGACT ATCGCA
VI-1879b	110 C T	---	---	GGGCTCATTTCATCAGAGCACATATCACGTGATGTCTGTTCCCTCTTTTCATAACTTACTCCCCCG CACTGTAGNNTTCTTTGAGGTNAAGGACCTGCCNNTTTT[CT]GCTGCTGCAAAATAAACCTCCCAAAA AAGTGGTTAGTCCACAGGTTTAAATAGTCTTGTGAATGAATTTCTGTGTGCGACCCCTGTGCTCTCT CAAGAAAAAAAACATTGAAAAATCTCCACAGAGCCCTTTACCCACT
VI-1879	110 C T	---	---	GGGCTCATTTCATCAGAGCACATATCACGTGATGTCTGTTCCCTCTTTTCATAACTTACTCCCCCG CACTGTAGNNTTCTTTGAGGTNAAGGACCTGCCNNTTTT[CT]GCTGCTGCAAAATAAACCTCCCAAAA AAGTGGTTAGTCCACAGGTTTAAATAGTCTTGTGAATGAATTTCTGTGTGCGACCCCTGTGCTCTCT CAAGAAAAAAAACATTGAAAAATCTCCACAGAGCCCTTTACCCACT
VI-1900b	119 C T	---	---	TGTTCTCTGGTCCAGGACCGGCTAAGTCTTGTCTGCATAATGGAATAATCAACTGGACAACCCCNNG CTNAGGTAGNNTACCTNNGGCAATTAGCCCCATCTTACAGCTGCAAAAGAGG[CT]GCTCTGAGAGGT AAAGTCCCTGCCCAACGCGCACAACTAGAGAGCAGCCAAACAGGTGTTTGAACCCAGCTCTGCCT GACTTCAGATCTGTGTCTTAAGTCCATGCCATGAGAAACCAC[CT]TCTTTTGTCTCC

II-1900	119 C T ---	TGTTCTCTGGTCCAGGCACCGGGCTAAGTCTTGCTGCATAATGGAATAATCAACTGGACAACCCNG CTNAGGTAGGNTACCTNGGCAATTAGCCCCATCTTACAGCTGCAAAAGAGG[C/T]GCTCTGAGAGGT AAAGTGCCCTGCCCAACGCGCACAACTAGAGAGCAGCCAAACAGGTGTTTGAACCCAGCTCTGCCT GACTTCAGATCTGTGTCTTAAGTCCCATGAGAAACCACTTTTCTTGCTCC ATCCAGTTTCACAGTGGGCACAGGATCAGATTAGGGCTAAGTTGGGGGACAGGATGCACAGCGT GTTGGCTCAGGATCTCTGGAGGTGGCACCTGTGACCTGGGCTAANCATGCTACTTTCAGAGTCAAGC AGCAAGCCCAATGGGTAGGGAAGACCAAGCC[C/T]CTCTGAANCTGGTCCCACGTGGAGATAGTGAA TACAGGACCCGNTGAGCATTCCAGATGACTCCAAAGCCCCGGCTGGAGTAT ATTCCAGTTTCACAGTGGGCACAGGATCAGATTAGGGCTAAGTTGGGGGACAGGATGCACAGCGT GTTGGCTCAGGATCTCTGGAGGTGGCACCTGTGACCTGGGCTAANCATGCTACTTTCAGAGTCAAGC AGCAAGCCCAATGGGTAGGGAAGACCAAGCC[C/T]CTCTGAANCTGGTCCCACGTGGAGATAGTGAA TACAGGACCCGNTGAGCATTCCAGATGACTCCAAAGCCCCGGCTGGAGTAT ATTCCAGTTTCACAGTGGGCACAGGATCAGATTAGGGCTAAGTTGGGGGACAGGATGCACAGCGT GTTGGCTCAGGATCTCTGGAGGTGGCACCTGTGACCTGGGCTAANCATGCTACTTTCAGAGTCAAGC AGCAAGCCCAATGGGTAGGGAAGACCAAGCC[C/T]CTCTGAANCTGGTCCCACGTGGAGATAGTGAA TACAGGACCCGNTGAGCATTCCAGATGACTCCAAAGCCCCGGCTGGAGTAT CCAGGTGAGGCTGAAAGAAGGAAGGAGGCAATTGCTGTTGGAGTGGGATCTTGAGAAAGCACCCCT GCAGAGCTTCATCTGTTTCAAAAGTGTCCATGCANGTCTGCTGTTGGAGTGGGATCTTGAGAAAGCACCCCT TTATCAGAGCTCCTGATGACAGATCATGAAAAATAGGTACTTCCCAAGCTCTGACTAGACCTTTGGCA GTTGCAATTAAATCCGTGGTGTCTGAAAACTTAAATGCACTCCCAACTT CCAGGTGAGGCTGAAAGAAGGAAGGAGGCAATTGCTGTTGGAGTGGGATCTTGAGAAAGCACCCCT GCAGAGCTTCATCTGTTTCAAAAGTGTCCATGCANGTCTGCTGTTGGAGTGGGATCTTGAGAAAGCACCCCT TTATCAGAGCTCCTGATGACAGATCATGAAAAATAGGTACTTCCCAAGCTCTGACTAGACCTTTGGCA GTTGCAATTAAATCCGTGGTGTCTGAAAACTTAAATGCACTCCCAACTT CTGATGCCAAGTGCAGCTTAGAGTNAGGAATCCAGAGAAAGTNTTGGATCTGGTAAGTAGGAGTCA TTCTGGGCATTTCTCATAGAGTNTTGTGTTAGTCTGTAATAACTGTTGCCCTAGGAAGGTTGTT TTCTCTAGTGTGTGAAAGCCTTCCCATCGAGTGATACAGTACTTCCAGTTATGGAGATTGTT /CTAACAAATCAAACTGGCTGAGGCTGTTGG AAATCTAGAAGCCAGAGTCAAGTCAAGTATTAAGTTGAAGTGAATGCAATTGATGTTTCATGT TTCTCTTAATCTGCACAAAAGTCAAGTAAAAATC[T/C]TTTAAATCAGTTACCAAGGCAATACCT GGGTTAATGAAGCACTCAAAAGTATGTAGAGTAGCTGCTCTGAGTCACTTTTTTCTACTCTCAATT GGCTTCAACCAATGCTTCCACTGGATC
II-1943c	165 C T ---	
VI-1943b	165 C T ---	
VI-1943	164 C T ---	
MI-1960c	270 A T ---	
MI-1960b	270 A T ---	
II-1977	203 T C ---	
I-2012	102 T C ---	

1-2013	127 C T ---	CTTTAGAGGTGGTCATTCGGTCCCTTCTGGAAAGTGATTGCTGTTTAAAGAAAAATAGATGCAACG TTGCTAAGTACACCTAAACATTTAAACAGTCTCCAGCAGATAAATGCTGATCTGACACT[C]/TCTCA CCAGAAAAGAGAAATACCCATCATGAGGAAGAGAAATGACTTTTGTTCAGTTATGCTCCCGGGTCC CCTTTCACTGGAGGATATCTCAGCTTCTGAGCCCTGGTTACTGCAATCC
1-2032c	166 G A ---	ACCAGACATCCCATCAGGAGTTAGTCTTCTGGCAAGCCAGCCCTGCCCTTCTGATTTCCCAAAAACC TCAATTTTCTTNACTTACTCATAATATTGCTAGGATATCCACATAACCAAAAGCCAAACCTAACCC ACATCACCCAACTGGTTTCTAGATGTACAC[G/A/JGTGGACCTGTGCTCAACCTCCGACTTTTCAC AGATCATTTGGTTAGGCTCACCTTCTGTAATTGCTTCTGTTTTCAAAGGG
1-2032b	219 C G ---	ACCAGACATCCCATCAGGAGTTAGTCTTCTGGCAAGCCAGCCCTGCCCTTCTGATTTCCCAAAAACC TCAATTTTCTTNACTTACTCATAATATTGCTAGGATATCCACATAACCAAAAGCCAAACCTAACCC ACATCACCCAACTGGTTTCTAGATGTACACGTGTGGACCTGTGCTCAACCTCCGACTTTTCACAGA TCAATGGTTAGGCTCA[C]/GJCTTCTGTAATTGCTTCTGTTTTCAAAGGG
1-2032	219 C G ---	ACCAGACATCCCATCAGGAGTTAGTCTTCTGGCAAGCCAGCCCTGCCCTTCTGATTTCCCAAAAACC TCAATTTTCTTNACTTACTCATAATATTGCTAGGATATCCACATAACCAAAAGCCAAACCTAACCC ACATCACCCAACTGGTTTCTAGATGTACACGTGTGGACCTGTGCTCAACCTCCGACTTTTCACAGA TCATTGGTTAGGCTCA[C]/GJCTTCTGTAATTGCTTCTGTTTTCAAAGGG
1-2054b	188 C T ---	CGTTTCTTCTACATCTTGGGNACATAAAGANGAAAGNAGCTGTCTTTTGTGGTAGTTTGCT CAGAGCTGCCCTAGAGCNAGGACAAGACAGGTGACCTTTCAAATACCTTACAGACTTAGGATTTGGA TTTTCATGGTGGTGGCACAGCCAGGCTCAACAGAACTAATACCTGCTGT[C]/TJCTGCCTCCAC CAGCCCTATCTCTTAGGCTCAAGGAGAAATTTTACTGGATGGGCTGTCTTT
1-2054	183 T C ---	CGTTTCTTCTACATCTTGGGNACATAAAGANGAAAGNAGCTGTCTTTTGTGGTAGTTTGCT CAGAGCTGCCCTAGAGCNAGGACAAGACAGGTGACCTTTCAAATACCTTACAGACTTAGGATTTGGA TTTTCATGGTGGTGGCACAGCCAGGCTCAACAGAACTAATACCTGCTGT[C]/TJCTGCCTCCAC CAGCCCTATCTCTTAGGCTCAAGGAGAAATTTTACTGGATGGGCTGTCTTT
2573d	129 T C ---	TGGGATTAACAAACCCTGTTTCTTCTCCAGTTACGTGCGCTTAATGTTTGTGCTAGAAATTAACA TTAACAGCAGTAAATAAGCTCTTAAATGCACCTTGCCGTTTCAAGGTGTTCCGCTGT[C]/TJGA TATCATCTGATCTTCCCAACCAGGCTTATTTATGCTAGGTAGGGTAAAGCAACAGAGGCTGTGT GAAGTGAATGATTGCTTGCACAAGGTCATATGGCTGGGCTTGACGAG
2573c	165 A C ---	TGGGATTAACAAACCCTGTTTCTTCTCCAGTTACGTGCGCTTAATGTTTGTGCTAGAAATTAACA TTAACAGCAGTAAATAAGCTCTTAAATGCACCTTGCCGTTTCAAGGTGTTCCGCTGTCTTTGATAT CATCTGATCTTCCCAACCAGGCTTATTTT/CJTGCCCTAGGTAAAGGGTAAAGCAACAGAGGCTGTG TGAAGTGAATGATTGCTTGCACAAGGTCATATGGCTGGGCTTGACGAG

VI-2573d	129 T C ---			TGGGATTAAACCCCTGTTTCTTCTCCAGTTCAGTGTGCCTTAATGTTTGCTAGAAATTAACA TTAACAGCAGTAAATAAGCTCTTAAATGCACCTGCCGTTTCAAGGTTTCCGTGCTTT/CJTGA TATCATCTGATCTCCCAACAGGGCTTATTATGCCCTAGGTAAAGGGTAAGCAACAGAGGCTGTGT GAAGTGAATGATTGCTTGACAAAGGTCATATGGCTGGGCTTGACGAG
VI-2573c	165 A C ---			TGGGATTAAACCCCTGTTTCTTCTCCAGTTCAGTGTGCCTTAATGTTTGCTAGAAATTAACA TTAACAGCAGTAAATAAGCTCTTAAATGCACCTGCCGTTTCAAGGTTTCCGTGCTTTTGATAT CATCTGATCTCCCAACAGGGCTTATT/CJTGCCTAGGTAAAGGGTAAGCAACAGAGGCTGTG TGAAGTGAATGATTGCTTGACAAAGGTCATATGGCTGGGCTTGACGAG
VI-2573b	165 A C ---			TGGGATTAAACCCCTGTTTCTTCTCCAGTTCAGTGTGCCTTAATGTTTGCTAGAAATTAACA TTAACAGCAGTAAATAAGCTCTTAAATGCACCTGCCGTTTCAAGGTTTCCGTGCTTTTGATAT CATCTGATCTCCCAACAGGGCTTATT/CJTGCCTAGGTAAAGGGTAAGCAACAGAGGCTGTG TGAAGTGAATGATTGCTTGACAAAGGTCATATGGCTGGGCTTGACGAG
I-2573a	129 T C ---			TGGGATTAAACCCCTGTTTCTTCTCCAGTTCAGTGTGCCTTAATGTTTGCTAGAAATTAACA TTAACAGCAGTAAATAAGCTCTTAAATGCACCTGCCGTTTCAAGGTTTCCGTGCTTT/CJTGA TATCATCTGATCTCCCAACAGGGCTTATTATGCCCTAGGTAAAGGGTAAGCAACAGAGGCTGTGT GAAGTGAATGATTGCTTGACAAAGGTCATATGGCTGGGCTTGACGAG
I-2868b	60 A G ---			GACTTCATGCTCATGAACAAGCATTTGCTTAATTTACAGACATTAAAGCAACAGCTTCCJA/GJCTC CCACTTCCCTCCCACTATCACCTCAACCTCTTCATCCACTTTAAAGAGGTTTCTTAGGCTCTGCAAT ATCATGGAAGCCCACTACTCTATTAAACGCTTCCCAATGATGCAGCCAGTTCTGCATACAGTTTGTA CAGAAATGCTATATTTATGGAACAGCTGAAAAATGAAATATCGATATAC
-2868	60 A G ---			GACTTCATGCTCATGAACAAGCATTTGCTTAATTTACAGACATTAAAGCAACAGCTTCCJA/GJCTC CCACTTCCCTCCCACTATCACCTCAACCTCTTCATCCACTTTAAAGAGGTTTCTTAGGCTCTGCAAT ATCATGGAAGCCCACTACTCTATTAAACGCTTCCCAATGATGCAGCCAGTTCTGCATACAGTTTGTA CAGAAATGCTATATTTATGGAACAGCTGAAAAATGAAATATCGATATAC
-2870b	131 T C ---			CATGCTGTGTAACCTCTGTGCTGTGCTGCGGGAAATTAGAGCAAGGAATTGTATAATCCTAGGC TTCAAGGAGCTTCTCATCTCATTTGAGGAGACAAGATGAACATCAGGAATGACTGGATAATGAIT/CJ AGAAATGAATAGAGCCCCATTTAAATATATACAGCTTATGTCCACTTCTCCTGCTGCCATCAC TGGGCTTTTACAAAGGAGGGCTTT
-2870	131 T C ---			CATGCTGTGTAACCTCTGTGCTGTGCTGCGGGAAATTAGAGCAAGGAATTGTATAATCCTAGGC TTCAAGGAGCTTCTCATCTCATTTGAGGAGACAAGATGAACATCAGGAATGACTGGATAATGAIT/CJ AGAAATGAATAGAGCCCCATTTAAATATATACAGCTTATGTCCACTTCTCCTGCTGCCATCAC TGGGCTTTTACAAAGGAGGGCTTT

VI-2954c	49 T A ---	---	TTAGCACATATCTGTGTGGGACTTAACCTGAGACAAGGCATATAAAA[TTA]CAGCACCTGGGGCA CAGAGGAGCTCTATGCATTNAATTCCTCATACCTACCCCTCCTCTCATTTCAATGAGTCTTTGAGT CCTTGGAAAGACTCTATCCCTGGCAACCCCTTGGTCTCTGGCCATCCATTGACAAATAAGTCCA GAG
VI-2954b	41 A G ---	---	TTAGCACATATCTGTGTGGGACTTAACCTGAGACAAGGC[AGT]AAAAAATCAGCACCTGGGGCA CAGAGGAGCTCTATGCATTNAATTCCTCATACCTACCCCTCCTCTCATTTCAATGAGTCTTTGAGT CCTTGGAAAGACTCTATCCCTGGCAACCCCTTGGTCTCTGGCCATCCATTGACAAATAAGTCCA GAG
VI-2954a	38 G T ---	---	TTAGCACATATCTGTGTGGGACTTAACCTGAGACAAG[GT]GCATAAAAAATCAGCACCTGGGGCA CAGAGGAGCTCTATGCATTNAATTCCTCATACCTACCCCTCCTCTCATTTCAATGAGTCTTTGAGT CCTTGGAAAGACTCTATCCCTGGCAACCCCTTGGTCTCTGGCCATCCATTGACAAATAAGTCCA GAG
VI-2971b	62 T C ---	---	ATTACAAATCCTACCTAGCAACTGCTGACACTTCCAGTTAGACTCACCAGCATTTCTAAGA[TT]CJG CTGCCAGCACCAATAAGCTTTCTTCAAAACAATTTGTGTAACCTCCTCTCTTAATAAACCTAAC ATTCTCTTTGTTCCCTGACATTTCTGAAGGCCAGCTGCTAGATGTATGTCAGATTGCAATCCT AGTCTTTAATGTTATCTGAAGAAAACCTTTTACTTAGGGATTGTCT
I-2971	62 T C ---	---	ATTACAAATCCTACCTAGCAACTGCTGACACTTCCAGTTAGACTCACCAGCATTTCTAAGA[TT]CJG CTGCCAGCACCAATAAGCTTTCTTCAAAACAATTTGTGTAACCTCCTCTCTTAATAAACCTAAC ATTCTCTTTGTTCCCTGACATTTCTGAAGGCCAGCTGCTAGATGTATGTCAGATTGCAATCCT AGTCTTTAATGTTATCTGAAGAAAACCTTTTACTTAGGGATTGTCT
2995d	133 A T ---	---	TTCTGGGAAAGAAAGATGGGGTTTNTGTTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTNTAAGATAAAGACCTGGAAGACCCGAGCCAAAGGAAGGAGCTGGANTTTTTTT[A /JAAATCTTTCTTTCTGGTGTAAAGGAAGTTATCTGAAAACCCACTGGTACTCTCCAATGGGTAAA GAATGAGACAGAACTAGCAGAAAGTGT
2995c	151 G C ---	---	TTCTGGGAAAGAAAGATGGGGTTTNTGTTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTNTAAGATAAAGACCTGGAAGACCCGAGCCAAAGGAAGGAGCTGGANTTTTTTTNA AATCTTTCTTTCTGGTGTG/JTTTAAAGGAAGTTATCTGAAAACCCACTGGTACTCTCCAATGGGTAAAG AATGAGACAGAACTAGCAGAAAGTGT
2995d	133 A T ---	---	TTCTGGGAAAGAAAGATGGGGTTTNTGTTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTNTAAGATAAAGACCTGGAAGACCCGAGCCAAAGGAAGGAGCTGGANTTTTTTT[A /JAAATCTTTCTTTCTGGTGTAAAGGAAGTTATCTGAAAACCCACTGGTACTCTCCAATGGGTAAA GAATGAGACAGAACTAGCAGAAAGTGT

VI-2995c	151 GC ---			TTCTGGGAAAGAAAGATGGGGTTTTNTGTTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTNTATCAAGATAAAGACCTGGAAGACCCGAGCCAAAGGAAGGAGCTGGANTTTTTTNA AATCTTTCTTCTGGT[G/C]TTAAGGAAGTTATCTGAAACCCCACTGGTACTCTCCAATGGGTAAAG AATGAGACAGAACTAGCAGAAAGTGT
VI-2995d	133 A T ---			TTCTGGGAAAGAAAGATGGGGTTTTNTGTTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTNTATCAAGATAAAGACCTGGAAGACCCGAGCCAAAGGAAGGAGCTGGANTTTTTTJA /JAAATCTTTCTTCTGGT[G/C]TTAAGGAAGTTATCTGAAACCCCACTGGTACTCTCCAATGGGTAAAG GAATGAGACAGAACTAGCAGAAAGTGT
VI-2995c	151 GC ---			TTCTGGGAAAGAAAGATGGGGTTTTNTGTTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTNTATCAAGATAAAGACCTGGAAGACCCGAGCCAAAGGAAGGAGCTGGANTTTTTTNA AATCTTTCTTCTGGT[G/C]TTAAGGAAGTTATCTGAAACCCCACTGGTACTCTCCAATGGGTAAAG AATGAGACAGAACTAGCAGAAAGTGT
VI-2995b	151 GC ---			TTCTGGGAAAGAAAGATGGGGTTTTNTGTTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTNTATCAAGATAAAGACCTGGAAGACCCGAGCCAAAGGAAGGAGCTGGANTTTTTTNA AATCTTTCTTCTGGT[G/C]TTAAGGAAGTTATCTGAAACCCCACTGGTACTCTCCAATGGGTAAAG AATGAGACAGAACTAGCAGAAAGTGT
VI-2995a	133 A T ---			TTCTGGGAAAGAAAGATGGGGTTTTNTGTTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTNTATCAAGATAAAGACCTGGAAGACCCGAGCCAAAGGAAGGAGCTGGANTTTTTTJA /JAAATCTTTCTTCTGGT[G/C]TTAAGGAAGTTATCTGAAACCCCACTGGTACTCTCCAATGGGTAAAG GAATGAGACAGAACTAGCAGAAAGTGT
I-3147	85 CT ---			GTGGTGCAGTTCATCCTCTGGAGCTCCCTGTGAGATCAGACTGGAGCCAGTCCAGCTTGAGACCAAC ATCTCACTTAGCTCCTT[C/T]CCTGCCATATCCTGTTTCTTACTCCTATCTCCTGAGACTTCTTCCT GAATGAATTACATGCACCTCAATCCCTGCCTCAGTCTCTGCTTNNAGGGAACCTTGACCTAAGACAGAA ATCTTAGTACCAAAATACITTTGCAAGG
-3234b	68 T C ---			ATTCTGTAATGTTTTTCACTGCTTCCAGTAAATTTTATTGAGGTCCATGTCCATTACCTCTACTTA[T/C]GACAAGCAAGAAACAACAAGAAAGCCCTCTGTTTGCAATCTGGCCTTTATAAATACCTTTCTG TATATTTTAAACAAGTACTGTAGAGTNAATGAATCATTACATCCTTAAATAGCATATCAAAATTTTAC TCAGTAAATTCAGAAGAAAGGACAAATGGAATGTACTATTTTINATATCTTAT
-3234	68 T C ---			ATTCTGTAATGTTTTTCACTGCTTCCAGTAAATTTTATTGAGGTCCATGTCCATTACCTCTACTTA[T/C]GACAAGCAAGAAACAACAAGAAAGCCCTCTGTTTGCAATCTGGCCTTTATAAATACCTTTCTG TATATTTTAAACAAGTACTGTAGAGTNAATGAATCATTACATCCTTAAATAGCATATCAAAATTTTAC TCAGTAAATTCAGAAGAAAGGACAAATGGAATGTACTATTTTINATATCTTAT

WI-3292b	106 GA ---			<p>GTTTGTAGACTAGGAGTTTCAGCTTCATCCAAATCCCTTTAAGGATANITAGCTCTGCACATCC</p> <p>TCCCTGTCCCGTCCCAAGCCTATGTACTGGTATGCT[G/A]TGGTATTGGATTGGGATGGATTACTT</p> <p>GCCATGAATATTTCCATTGTTCTCATTATATGATTAATTAAGTAAATATTTATTTNCCATGA</p> <p>GACACAATGGAAAAATGGAAAAATTCATGGAAAAAACCATTTCATC</p>
WI-3292	106 GA ---			<p>GTTTGTAGACTAGGAGTTTCAGCTTCATCCAAATCCCTTTAAGGATANITAGCTCTGCACATCC</p> <p>TCCCTGTCCCGTCCCAAGCCTATGTACTGGTATGCT[G/A]TGGTATTGGATTGGGATGGATTACTT</p> <p>GCCATGAATATTTCCATTGTTCTCATTATATGATTAATTAAGTAAATATTTATTTNCCATGA</p> <p>GACACAATGGAAAAATGGAAAAATTCATGGAAAAAACCATTTCATC</p>
WI-3355	19 GC ---			<p>CCATGAACCATGGGCTACA[G/C]ATATTCCTAACTTCAGAGTCCCTCTTACTGGAGAGGGATCCA</p> <p>CTTTTAAATATGATTTCTTGAAGTGGCTGCATACTATTCCTCCCAAGCATTAAACTCATCAGAA</p> <p>AAAAAATCATCAAAAAGTCGAAGTTAGTTTATACCTTCACCTTTTCAATGGAAAACTTTATAA</p> <p>ACTGTGGATCAATTTATATTACTTTTGGATCAGTTTAGATGACTTTNAGTTG</p>
NI-3408	194 GA ---			<p>CCATGAAGAATGAGTTCCCTCCCTCCCTGGGTCACGCTAAGAATAGCACACCCCTTGAGAAATTNACT</p> <p>TAGCACGTGGCATTGTAATGGCTGGATTTCCTCCGCTCTAAGACACACCTTTATGCTTTCNAAGCTTT</p> <p>CTGGAATTGGGATGAATCTNACATTCATGTCACCTTCGTTGGGATCAGTCTCC[G/A]TGCCCC</p> <p>ATCTCTGNGAAGCCACTGGGAAGTCGAAGGAGTGACTTCAATCAGG</p>
NI-3505b	131 GA ---			<p>TAACTTATGCCTCATCTGGCTTACTGCTTAGTTCCCATTTGTCATCAGTGCACCTTAAAAAATATTTT</p> <p>GAAAAATTGCCATTTTAAATATCTTTGGAACTTCCTAACACATTACCTATTTTNAACCAAAC[G/A]</p> <p>AGGTGATTCCTTATGGGAAATATATACAGCAAGAAAAAANANGGAAAAAATGTTGATGATACCT</p> <p>GTTTAAATTGGGAAATATGTTTGCATAT</p>
-3505	131 GA ---			<p>TAACTTATGCCTCATCTGGCTTACTGCTTAGTTCCCATTTGTCATCAGTGCACCTTAAAAAATATTTT</p> <p>GAAAAATTGCCATTTTAAATATCTTTGGAACTTCCTAACACATTACCTATTTTNAACCAAAC[G/A]</p> <p>AGGTGATTCCTTATGGGAAATATATACAGCAAGAAAAAANANGGAAAAAATGTTGATGATACCT</p> <p>GTTTAAATTGGGAAATATGTTTGCATAT</p>
3564b	177 CT ---			<p>GCTAGTAAGGTTCCACCTAAATGGTTCCAAGTCAGGAGAGTCACTAAATGTTTGGAGAAATAAAAGT</p> <p>GAAATCAATGTGCTTCCAGTGATTCACATGGCAGAGTGCACAGAGGGCTTGAGCGTCTGAGCG</p> <p>TGGGACTTCACGTGTTGACTAACGTTAACATGCATGTCTGTTC/TAACAAGTGTGTTGGTGTGTCATC</p> <p>AGTGTACACATGCTACCTTCCTTCACAAAAACAA</p>
3564	177 CT ---			<p>GCTAGTAAGGTTCCACCTAAATGGTTCCAAGTCAGGAGAGTCACTAAATGTTTGGAGAAATAAAAGT</p> <p>GAAATCAATGTGCTTCCAGTGATTCACATGGCAGAGTGCACAGAGGGCTTGAGCGTCTGAGCG</p> <p>TGGGACTTCACGTGTTGACTAACGTTAACATGCATGTCTGTTC/TAACAAGTGTGTTGGTGTGTCATC</p> <p>AGTGTACACATGCTACCTTCCTTCACAAAAACAA</p>

I-4110	130 T C ---				GAAAAATGATGTTTTGATTTCCCTTCCTATCTTCAGATTATTGGAGTGTCAATTAGAAAACTGATAGT AACCTTTTATTTGATGAAACTCTGTCTATAATTAAACCTTCCTCTTCCTGCTTTATTTGGCC[T/C]ACA GTTAGGTAATAAAGATGCCCAAGAAATTCAGTATTCAAGTACAGTAAAGTAGCAACCATGGG GTAGGACAAGTNCAGAAAAAGGAGGAGGTTGGGGTTTTCTGGGAAGA
I-4119b	168 G A ---				ACCTCTATGCCTGAAAGCCCTCATGAGTGTCCAGCAAGGCTTGGTGGGAAAAAGTAATAAATAG AATGGAAGGATAATAAAGGTAACACTACGGGGAAGAACAGGACAAGAACAGACAGAGAAGAGGGGT AGAGGAAGGAATCAGTTGTGTGCCATTCAAAGTTAA[G/A]CAAGGTACCAAATTTGTTTTCTTTCA TGAGACCCTGCTGCATCTTTTGTGTTTTTAAAGGGCTCTGTTGATCATCATCTTCA ACCTCTATGCCTGAAAGCCCTCATGAGTGTCCAGCAAGGCTTGGTGGGAAAAAGTAATAAATAG AATGGAAGGATAATAAAGGTAACACTACGGGGAAGAACAGGACAAGAACAGACAGAGAAGAGGGGT AGAGGAAGGAATCAGTTGTGTGCCATTCAAAGTTAA[G/A]CAAGGTACCAAATTTGTTTTCTTTCA TGAGACCCTGCTGCATCTTTTGTGTTTTTAAAGGGCTCTGTTGATCATCATCTTCA CAAAGTCAGATTTTGATTATTCAGGATAACAATTTTGAATAAGAAAGTG[T/G]TTTAAACTATTT CAAATAACAATAAAGAAACATGATGAAATTCCTCGTTACATAATTGTATAGAATTTAGTGGG TTCTCCATGACATTTGGCTTCTCTCAACAGTGGTGGTTGGATGTTTCTCTATGCTTTCTC AGGCACAAACAACAGTGAAGAAACCTTTAGCAACATTTCTGCTGAATGTGTG CAAAGTCAGATTTTGATTATTCAGGATAACAATTTTGAATAAGAAAGTG[T/G]TTTAAACTATTT CAAATAACAATAAAGAAACATGATGAAATTCCTCGTTACATAATTGTATAGAATTTAGTGGG TTCTCCATGACATTTGGCTTCTCTCAACAGTGGTGGTTGGATGTTTCTCTATGCTTTCTC AGGCACAAACAACAGTGAAGAAACCTTTAGCAACATTTCTGCTGAATGTGTG TTGTACATGTTTCATTCATCCCTCCCTCCCTCTTTCTGCTTATAAGAACCTCGCTTCTCTCCAAGT CTTACTTCTCCACCTGAGCCACAGATCTCTTTATTTCCATCAAAGCTTCTCAGCATCTCTATATACT GTGCTG[T/G]CCTTGTGAAGAGCCAGAGCCGAGCATACCAACATGATCTTTGCTTGAAGTGTAGT AGGAGAGACAAGACAGATGTGGGGTCCCTCATGATATAAGGTAATTG TTGTACATGTTTCATTCATCCCTCCCTCCCTCTTTCTGCTTATAAGAACCTCGCTTCTCTCCAAGT CTTACTTCTCCACCTGAGCCACAGATCTCTTTATTTCCATCAAAGCTTCTCAGCATCTCTATATACT TICGTGCTGCTGCTGTGAAGAGCCAGAGCCGAGCATACCAACATGATCTTTGCTTGAAGTGTAG TAGGAGAGACAAGACAGATGTGGGGTCCCTCATGATATAAGGTAATTG TAACACACTTTTCATTTGTTTCTTACTGAGTTAAAGGACCATCCATATATTAACAAATCCCTC AGTTCTATGCTTTAGAGTCTATATAGGACTACTGTAATAATTCAGAGGGAATTAATCTCTGAGTA GGGGAATGAGTTAAATAATCTACCACATGCCAATTCAGGGACTGTGTTAA[G/A]ATGCTCTCTCT TGCCCCCTTCCCAAGTTCTTAATTCCTAG
I-4119	168 G A ---				
I-4123b	51 T G ---				
I-4123	51 T G ---				
-4149b	145 G C ---				
-4149a	137 T C ---				
4182	188 G A ---				

VI-4230	93 T ---			AGAGACGTTGAATGGGGACATCTTTTCTATTTGATTTAGTTTAAACATTTGATAAGAAATGATGAAA GTTTGTCCACATTCAGATTTATCTTTATAGCAGCAGAAGTCTGGCAAATAATAACAGCACACTGACT TTTCCATGGTAAAGAAAGTTAGAGAAAAACAGCCTATTTTCTTAATGTTAAATGTAATCTCTGAAT ACATTTTAAATGGAGGAGAAATGAATAGTGACCTTTGAAATTTTGAATTTATGG
NI-4241	118 C T ---			GAAATTCATTGAAGTTTGGACCTTGAACCTGATCTCATTAAATACATTTTNCCTTGTAGTGGTTGATTT CATTTTGTACAACAGAAACAGACGAAATTTCCACTTAAATTAATTTCTC/TAAAGTATCTATGAT TTAGCACTGTTAGCACCAGAAACTGTGAAATTTATCTCCTAGATATCTCAGAAATCTAGGATGGAAG AA
NI-4271b	151 A ---			CAGGGCTTTTGGGAAGATCAGTTAAAGCAGANCTGGACCTAAAAGACTAAGCACATTTTCAGCAT CAACAAAAGGTGACATGTTACCCATGAAGTCCCTGGAGGATTAAAGATCAATAAGAGCCTCAGG GGACTGAATCCAAACGGGGAATATTAGAGTACTACAGGGAGCCCCCAACCTCCCCCTTTGTCTCAGG CTCTTAGAAGGTCAGTCAGGGGG
NI-4271	151 A ---			CAGGGCTTTTGGGAAGATCAGTTAAAGCAGANCTGGACCTAAAAGACTAAGCACATTTTCAGCAT CAACAAAAGGTGACATGTTACCCATGAAGTCCCTGGAGGATTAAAGATCAATAAGAGCCTCAGG GGACTGAATCCAAACGGGGAATATTAGAGTACTACAGGGAGCCCCCAACCTCCCCCTTTGTCTCAGG CTCTTAGAAGGTCAGTCAGGGGG
WI-4389b	156 G A ---			AATCGAAACATTGATTTTTTTGTAAAGGAACACACATTATTATGATATTTGTGCCAGTTTAGCATAT GAAATTTGAAAGGGATGAACCTGGAGGAAGAGAGAAATAGAAAGGATATTATTCATAACCTTTGGA AGGTAAGATGTGAACCTATACA/G/ATNGCAAGGAAAGTAGAAATGGAACAGACATGATTGACTTA AGAGTATTGTAGGAACCTGGAAGCGGTAA
NI-4389	156 G A ---			AATCGAAACATTGATTTTTTTGTAAAGGAACACACATTATTATGATATTTGTGCCAGTTTAGCATAT GAAATTTGAAAGGGATGAACCTGGAGGAAGAGAGAAATAGAAAGGATATTATTCATAACCTTTGGA AGGTAAGATGTGAACCTATACA/G/ATNGCAAGGAAAGTAGAAATGGAACAGACATGATTGACTTA AGAGGTATTGTAGGAACCTGGAAGCGGTAA
WI-4488	31 A G ---			GATGACAAATTATTGTGATTGGCATTTTAAAG/GGTACCATTCATTTCTCTGGCTTCGTGTGTT TGTTGTTGAGAAAGTCAGGGGTAGTCGTATTGCTCTTTCTAGTTCTCTCAGTAGGAAAGACTGATC CTAAACAACCTAATTACCCATGCCAAAGTACGTCCAAACTGATCTTTAAAGAACATAAATCAAAATTG TATTATCCTATGCTTAAATGCTCAG
WI-4491	145 G C ---			ACCATCAATGATACCTCTTAAATTTATTAGATGATTAACTGGCTCTGTTAAAAATAAAAAACCT GTCCTGGACATTGAAAAATAAACACATTACTATTGGTCATTTCTGCTACTTACAAGGTACTGCACCTA AACAAAGTTAAG/G/C/GTTTTTTGGAGGGGAAAAATCATAAAAATGCATAAAAAATTTCTACCACGTGCA TTTCTTGCCCATAAATAAAATTTTACATGCGCT

VI-4584	144 A G ---	---	TTGGTTGGCATTTAGCCTCATAACAACATAATTGTTACTCTTATTTTACAAACAAG AAAAATGAGGCTTAACATCACACTTCTGCTTAGTCGCAGAGCCAGAAATTTGAACCCAGGAATCCATT CACCGGTACIAGJTGCTACCTGGTAAAAAATGTTTAAATTAATCTATGGCATTAGATTTCAAAGA GTCCTAATGTGGTTTGAANAATAGGTGTCCTTAAATTTGTTTATCAGTATGC
VI-4639	185 C T ---	---	TTTCTGCAATTTGAATGTGTATGGTCAGACTTCAGAGGAACCCAGGAATCTCATTTATTCAGTACAATA TGGTGGCCAGGTGCTCAGGCCCTATTATCAGAGAGATCTCAGTTTAACTTCCAAATCCACCATTAC TGACCATATGACTTGGGGAACATTATCTCACCTATCTGAGTCTGATCC[CT]CATCTTTAAATTGTA AATTTAAGGACACCTATCATAGTAATATTGTGAGGATAAAATGAAATAA
VI-5327	63 A ---	---	AAATGAATCCGCTTAGAGCAATACCAGTAAGGGCTGGTGCAGGATGGTGGCTGAGAGA[A/-] JGATTACTCATAAAAGCATATTAATTTTATAAATATGGAATAATTAACCTAGATAAATTAATGTGAAT TGAGTTTGAAGGTTCATGAGAGTAGGGAGGAGGTAGTTTCTACTTATAGGGTTTATATAAGTNGCT TCAATAGAAATGGCTCTTTCCGATGACAATGATGAACCTGTTCTAAGCAGACAG
NI-5390	87 C T ---	---	GCTTTTGAGAAATGAAAAGGGGAGCCCTGGACCATTGCAGGGCTTCTCATCTCTGATTATTTGTGTAT TTATTGTTCACTTATTAT[CT]GTCTGTCTCCCTTCTGGTATGCTTGTGTCATGAACAATGAATTC CCAGTGCCCTGGCCGATTCTGGCTCCTAGAGGTGTCAGAAAAAAGTTCCGGTGAATAGAATTG ACGAATGGTTCAGAATTGAAACCTGGAATCTATGGAAGACAAACGAAT
NI-5404b	87 G A ---	---	CCTTGCCTGCTTTATGCATAATGAGAAATAGAGTTGACTCTCCTGTCAGAAATCAATTATTAAGCAGT GCAACATTATTTAATTTG[A]AAAGAAACTTGTCTGAACTTTGTACTCTTGTAGTNAAAATTG AATCTTCTCTCAGCAGTTCCATGGTGTGAATCCACCCCATCTCTTTTCCACCAGTAGCAAGATT GCTACTTATATGGAAGGGTTTAGAGTTTATAACAA
WI-5404	87 G A ---	---	CCTTGCCTGCTTTATGCATAATGAGAAATAGAGTTGACTCTCCTGTCAGAAATCAATTATTAAGCAGT GCAACATTATTTAATTTG[A]AAAGAAACTTGTCTGAACTTTGTACTCTTGTAGTNAAAATTG AATCTTCTCTCAGCAGTTCCATGGTGTGAATCCACCCCATCTCTTTTCCACCAGTAGCAAGATT GCTACTTATATGGAAGGGTTTAGAGTTTATAACAA
WI-5545b	77 A C ---	---	TAGAAAGGGGATGGTATGGCCTCTGAGACATTTAAATCTATCTTCCACTCACACTGCCGCCA TATCTCCTC[A/C]CCAACACCTCTGTTTCTGACAGCCAAAGTTTCCATCAGTTGATATGGGACTATTT GTTGCAAAACAATTTGTTAAAGATTGGCTGACTTTGGCTGAATTTGCTACAACTCCAAAAAGANTC GAGATACACCATGAATTTTATTTTCATTCA
WI-5545	77 A C ---	---	TAGAAAGGGGATGGTATGGCCTCTGAGACATTTAAATCTATCTTCCACTCACACTGCCGCCA TATCTCCTC[A/C]CCAACACCTCTGTTTCTGACAGCCAAAGTTTCCATCAGTTGATATGGGACTATTT GTTGCAAAACAATTTGTTAAAGATTGGCTGACTTTGGCTGAATTTGCTACAACTCCAAAAAGANTC GAGATACACCATGAATTTTATTTTCATTCA

WI-5860b	134 A G ---	---	ACTCAAGTTGGGGGATAAAATCAGAAGTTTCTATGTACAACCTAAATTTTGCTAAGATTTTATTGT TTCTTTTATATAAAATATGGAATTTGTTTACTTCCCTAACCAACCTTCTAACTGAGGAACCTACIA/ GJTTACTGGAATCATGTGAAGACATTTCTAAAGGTACCCAGGTGCACATAGTTTTAAGGGAATCA ATTTCCAAATCATCAACTTCTGTAT
WI-5860	134 A G ---	---	ACTCAAGTTGGGGGATAAAATCAGAAGTTTCTATGTACAACCTAAATTTTGCTAAGATTTTATTGT TTCCTTTTATATAAAATATGGAATTTGTTTACTTCCCTAACCAACCTTCTAACTGAGGAACCTACIA/ GJTTACTGGAATCATGTGAAGACATTTCTAAAGGTACCCAGGTGCACATAGTTTTAAGGGAATCA ATTTCCAAATCATCAACTTCTGTAT
WI-6106	208 C G ---	---	GCAACAACCTATTATACCTGATTCACACCCAGGTCTACTAACATTAAATCAACCTAACCAACATAC TATATATTGTCCTGTTCTGAATTTTTCATTTAGAACTGATGAGATTTAGCATGGGATAAGTGCAG TGCAGAGATAGTAAACACTGCTCTTTTTCCTCCAGGAGTCTCAATGTGAAGTATAATCTTACAGAG TAATT[C]GJATAGTAGGTACCCACAAAGTCTATATTGTATGTGAAGGAAAG
WI-6109d	129 T C ---	---	AAGATAGACAAACATATGCCAGACCAACAAACACAGACCTGTCTATTTCTGAGAGAAATGTAC ATTGAGTCTTCCCTCTCTGGGACTATAAGGAGATCAGGTGGAATAAACGAAGGAAAAAACCT[C] AAACCTATATTNCTGCTGTGTCATCTTTAAATGTATAATGTGGGAGAGAAAGGAATTTTGATGT GNAAAAATTATCCCTGAAAAATTTTATACCA
WI-6109c	147 T C ---	---	AAGATAGACAAACATATGCCAGACCAACAAACACAGACCTGTCTATTTCTGAGAGAAATGTAC ATTGAGTCTTCCCTCTCTGGGACTATAAGGAGATCAGGTGGAATAAACGAAGGAAAAAACCTAA ACCTATATTNCTG[C]TGTGTCATCTTTAAATGTATAATGTGGGAGAGAAAGGAATTTTGATG TGNAAAATTATCCCTGAAAAATTTTATACCA
WI-6109b	147 T C ---	---	AAGATAGACAAACATATGCCAGACCAACAAACACAGACCTGTCTATTTCTGAGAGAAATGTAC ATTGAGTCTTCCCTCTCTGGGACTATAAGGAGATCAGGTGGAATAAACGAAGGAAAAAACCT[C] AAACCTATATTNCTG[C]TGTGTCATCTTTAAATGTATAATGTGGGAGAGAAAGGAATTTTGATG TGNAAAATTATCCCTGAAAAATTTTATACCA
WI-6109a	129 T C ---	---	AAGATAGACAAACATATGCCAGACCAACAAACACAGACCTGTCTATTTCTGAGAGAAATGTAC ATTGAGTCTTCCCTCTCTGGGACTATAAGGAGATCAGGTGGAATAAACGAAGGAAAAAACCT[C] AAACCTATATTNCTGCTGTGTCATCTTTAAATGTATAATGTGGGAGAGAAAGGAATTTTGATG GNAAAAATTATCCCTGAAAAATTTTATACCA
WI-6112	96 T C ---	---	AATGCCATACCTTCCATCATGCTGCATAACTGATTGATTCATAATGCTTATTGTTAGCACCTGTC TTCCAACACATGCTGTTTTGTTCAATGA[C]GCATATCCCAAGTGCCCTAGACAATGCCCTCCCATAC AGTGAACAGATTTGACTAAACATACCTGTTAAATCAATAAAATTAATCAACTGGCATATGCAGG GAAC

VI-6244	103	T C ---	---	---	TAATTGCACAACCTTACATATCAGGGTTCTGATTGAAAGGAAGAGAATATTCCTTTCTTTAGTGATT GCTTAATATTAAATTAAGTGCACCATCTCTTC/GCTCCTTATAAATGTGTTTAGAAGAAGG AAATTGAGTGTGGGAATTAAGCAACGAGAGACATTTTATATACCTCTACAGTGGGGAAGACTT CCTATTTCTTTCCCAAGGATGGATACATTCTAC
VI-6268	124	C T ---	---	---	CTGGCCTTATAATCCAAGTTTAGGATTAACTTACCCCAACTTAATAGACTTCCAGACAGTTGCAGTT GTCTACAAGATTTCTCCTAGTAGGGCTTTGGGTGGTGGCACCGTTGGCTCATTCTCTACTCTCCCT GGGTCTTATTGACTTTTCAGGGAGCCTAGAAGAGCTGGACAAAACCTGCTCTTTGCAGAAAAGAGTCG GGGTCCAAAGATTTCGTACGATTTTATA
NI-6336b	234	C T ---	---	---	AGGTGCCATTTAATCCATTCAAATTTGGAAGCTACATCTTCAAGGGCTGAGAGAGCTCACTCCCCCC ATATATCCCCCTTACATGTTTCTTATAAGACATACAGTTTAAATCAATTAACTAAACAGCTT ATATACTGGCAATATATTACAGATGGTTTATGTCAGAGTAAATAGATCAGATGAAATGGACCATGTG GTACCCCAAGTGCATTATGCTTGGTAGAGCCCTTTGAGGACACTGACAGT
WI-6336	234	C T ---	---	---	AGGTGCCATTTAATCCATTCAAATTTGGAAGCTACATCTTCAAGGGCTGAGAGAGCTCACTCCCCCC ATATATCCCCCTTACATGTTTCTTATAAGACATACAGTTTAAATCAATTAACTAAACAGCTT ATATACTGGCAATATATTACAGATGGTTTATGTCAGAGTAAATAGATCAGATGAAATGGACCATGTG GTACCCCAAGTGCATTATGCTTGGTAGAGCCCTTTGAGGACACTGACAGT
WI-6381	92	C A ---	---	---	TTGGATACAAAATTCAGTTACACAATCAGTAGCATTCAAAAATAGTTATGAGTATTTATACAATTA CAAAAATGNNTCATGTTTAAACA/CAGTATTTTAAAGCTCAAAACATTTTAAACAGGCACAAT ATTCTAANGGCATATGCATTCAACCATGGCTTTTGAATGCTCACTCCCAACTTCACAATCAAAATC TACAGANGCGGCAAAAGATCAGAGTTTCAAG
WI-6436	198	C G ---	---	---	GGTTGAGGCATTGGGAAAGGCAGAAATGAGGCAGTAGAAAATGGACATTTTAGGAAAAGAGAAGT TCAGAGGCAAAAGTCATGACAGACAGGAATACAGGCTTAGGAAGACAGTAGTCTCTGTGGTTGAA ATTTGGTGTCAATAAAGAAAGTTAGACTTTGGTGGTGTAGTAGTGTAGTAGGAGTAGCGTT[C/ GIATTGGGTGTTATCCACAGACAAGGTGATGTTCTAAGATTTGATATTTATTGT
WI-6449	186	C T ---	---	---	GAGGCCTCTTTGCTTTTCTCAGTCAAGGCTGTATCCAGGGTTGATATCTAGCCTATATGCCATATGT GTATGGCTAGTGTGTTGTTCTGATTGGTGGTGTCTACACTGCCAGATTGTTAAATATTTGAAAATC GTATCTGGTCTATTCACTGCTGCTGATCTGATCTTATGCTGGCTCTATT[C/ATCCCTATTCTCTGA TCTTATGTCAGACCTGAAGTCCCTCTAAATTTTCTGTTGGTGTATTATA
WI-6449	186	C T ---	---	---	GAGGCCTCTTTGCTTTTCTCAGTCAAGGCTGTATCCAGGGTTGATATCTAGCCTATATGCCATATGT GTATGGCTAGTGTGTTGTTCTGATTGGTGGTGTCTACACTGCCAGATTGTTAAATATTTGAAAATC GTATCTGGTCTATTCACTGCTGCTGATCTGATCTTATGCTGGCTCTATT[C/ATCCCTATTCTCTGA TCTTATGTCAGACCTGAAGTCCCTCTAAATTTTCTGTTGGTGTATTATA

NI-6463	72 T C ---			GCTGGAGAGAAAGACCTCCAAAAGAGAAACTAAATCAGAGTCTCTTGAGCAAGAGGAATTGAAA AGAACATCTGAGAAAAAATTAAGTAGAACTCAAGAGGCCAAAAGTCCCAATTTGTCTCATTA TAAGAAATATTTGAATGGAAATCTTAAGAATGATTTTATTGATCAGTTAAATGTTCTTCTCTCTCTC CAGTCCCATTTATATGACATTCGGCATGCTG
NI-6474b	76 C T ---			AAGCAGTAAATCTTCCATCATGCCATGGATGCCAGTGGGTAATGTTATAGAACTTCAGAGGANAC AGAGGCAAA[C/T]GTTGGTTATAGCAGTCAACGACATCATCAATGAAGACATGACTTGTCTTAGAGCC AAGAAAAAGTAGGATTTTGAAGGCACAGAGAAAAGGGGTGTTACTAGAGGAGAACTATGTAAGCAG AGGTATAGAGGAACTAAAGTATAAAGAGTGAGCCATAACTTAGGGTACCATAA
WI-6474	76 C T ---			AAGCAGTAAATCTTCCATCATGCCATGGATGCCAGTGGGTAATGTTATAGAACTTCAGAGGANAC AGAGGCAAA[C/T]GTTGGTTATAGCAGTCAACGACATCATCAATGAAGACATGACTTGTCTTAGAGCC AAGAAAAAGTAGGATTTTGAAGGCACAGAGAAAAGGGGTGTTACTAGAGGAGAACTATGTAAGCAG AGGTATAGAGGAACTAAAGTATAAAGAGTGAGCCATAACTTAGGGTACCATAA
WI-6478b	175 T A ---			GAACCTCAATTAACCTTGCAACACTGAGAAAATCGGATTTGGAGATCTGCAAGCTGAGGTTGAGATT TTGGACCTTGGTGATCCAAATGGGAATGCCACGCTTCGAGGCTGCTATATGCTTTATTTTGTA CACTGCTATTTACCTCCCTCCCAATAGTGGAGAAATCAGAGT[A/G]CTCCTTGTGCTGTTGCTACAGA GAAGATATACAGGATGGAAGGACAGCTCCTCGTAGGACCTAGACACAACCTG
WI-6478	175 T A ---			GAACCTCAATTAACCTTGCAACACTGAGAAAATCGGATTTGGAGATCTGCAAGCTGAGGTTGAGATT TTGGACCTTGGTGATCCAAATGGGAATGCCACGCTTCGAGGCTGCTATATGCTTTATTTTGTA CACTGCTATTTACCTCCCTCCCAATAGTGGAGAAATCAGAGT[A/G]CTCCTTGTGCTGTTGCTACAGA GAAGATATACAGGATGGAAGGACAGCTCCTCGTAGGACCTAGACACAACCTG
WI-6559	149 G A ---			CACATTTTGAATGCAACTGAGAAAANTGGTTTNTAGGCTACCTTTTATTAAGAGTACATCTGGCTC CAATGTTACCCCAACATGCAAAAACATAAGGCAACAATCTGATCATTTTATAGGNTCCCAAGCCCA TTAGCAATATCTTA[G/A]TCAAAATTTTAAAAAGAGAACAGGAAATAAGGAAGGCCTAACAGAGGAG TTAAATAATTGTGCAAAACTTATCAGTTCTTC
WI-6564b	54 G A ---			TTCTTTATTGGTCTACCAATGTGACTCTTTACCCAGGCCCACTGTTCTCTATGC[G/A]CACTGGCTTTG TAGGCATTCACATCATATGTCTGTCTGCTGAAATCTCAATTAATTTCTCTNCCATTCCTTTCCAT GCTCTGCCTCATTTNCTCAGAAATGAAGGCATTTGATTATNATTTTTTTGTTGGGTCTGTGTAAG GTTCTCTGGCAGGAGAACATGCATATGACTTTAAATAAAGACCAACA
WI-6564	54 G A ---			TTCTTTATTGGTCTACCAATGTGACTCTTTACCCAGGCCCACTGTTCTCTATGC[G/A]CACTGGCTTTG TAGGCATTCACATCATATGTCTGTCTGCTGAAATCTCAATTAATTTCTCTNCCATTCCTTTCCAT GCTCTGCCTCATTTNCTCAGAAATGAAGGCATTTGATTATNATTTTTTTGTTGGGTCTGTGTAAG GTTCTCTGGCAGGAGAACATGCATATGACTTTAAATAAAGACCAACA

VI-6608b	46 C ---	---	CTAATCAGTAGCACTGAACATGGCTCTAGTGGGCTCAGT[C/- JAGTTCAGGCAGCTAAAGGAGGGGATTTCCCTAGTCCCTCCTCCTAGAGCTAAATATGCATCTGG GAAAAATTAGGCTCTGGAGCACAGAGGTATTTTCTAGAGGAAAAGAACTGAACCTCCAGCACTAG GTAAACTGCAAAAAGAAAAACACCTGTGCCAGGCACTAGCTACAAGGCCACACCCAGAAAAAGGAA AGC
VI-6608	46 C ---	---	CTAATCAGTAGCACTGAACATGGCTCTAGTGGGCTCAGT[C/- JAGTTCAGGCAGCTAAAGGAGGGGATTTCCCTAGTCCCTCCTCCTAGAGCTAAATATGCATCTGG GAAAAATTAGGCTCTGGAGCACAGAGGTATTTTCTAGAGGAAAAGAACTGAACCTCCAGCACTAG GTAAACTGCAAAAAGAAAAACACCTGTGCCAGGCACTAGCTACAAGGCCACACCCAGAAAAAGGAA AGC
VI-6666	68 C A ---	---	GTTAGACAGTATCCAGCAAAAAGGTATTTATACCTCTACTTTTCCAAAAACGAGGAAACCTCCOC A[C/AJAAATCCCATCAACACACAGTCATGCTGGAAGGCATCTGTCTACTCTGTGGTTTCATGTAA ATGTTGGGGTGACTCATTCCGCCCTCTCTNTTCTCAAGTCCAGGCTTCTGGGTAGACCCAAAACTA ATACAAATGTTAGAGCACACAAGAGA
VI-6670b	120 A G ---	---	AGATTAAACATAATTATCTGGGCCATTGTAGGGTNGGAGGAGTGTITTTCTATCTGCAGCCAAA CAGAAATACGTAGTACAGCAAAAACCGTCTCAACAGTAAGCACACAATGAAC[A/GJTTGTAGCCA GCATTGCCATTGAGGCCGAGTCAGGGTTGTGGGCCAGAGTTTAGACAATTTGGGGAATTTCTGA AAAAAAAAGAAATACAGAATTGTAACACAGACACAGAATCTTAGAAGGGAT
VI-6670	120 A G ---	---	AGATTAAACATAATTATCTGGGCCATTGTAGGGTNGGAGGAGTGTITTTCTATCTGCAGCCAAA CAGAAATACGTAGTACAGCAAAAACCGTCTCAACAGTAAGCACACAATGAAC[A/GJTTGTAGCCA GCATTGCCATTGAGGCCGAGTCAGGGTTGTGGGCCAGAGTTTAGACAATTTGGGGAATTTCTGA AAAAAAAAGAAATACAGAATTGTAACACAGACACAGAATCTTAGAAGGGAT
NI-6704c	33 T C ---	---	TTTGAAAATAAATTCATGCACCAATGTTTAACT[C/C]CACATATATCATACAGTGCAGGATTTATGA ACATACATAAAATCAAAATCATACCATATAAACGTTTACAAATAAGTTTTTCATGACACACGNGCA CTATTGCTCTTTAAATATGTTGTACATGTCATCATTAATCGATTCTTCTCCACATGGTTATTT CAATGCAAGANCCGATCAGCATGAAGAGTCTAGTACAAGATAGGCAGACATG
NI-6704b	33 T C ---	---	TTTGAAAATAAATTCATGCACCAATGTTTAACT[C/C]CACATATATCATACAGTGCAGGATTTATGA ACATACATAAAATCAAAATCATACCATATAAACGTTTACAAATAAGTTTTTCATGACACACGNGCA CTATTGCTCTTTAAATATGTTGTACATGTCATCATTAATCGATTCTTCTCCACATGGTTATTT CAATGCAAGANCCGATCAGCATGAAGAGTCTAGTACAAGATAGGCAGACATG
WI-6704	28 T C ---	---	TTTGAAAATAAATTCATGCACCAATGTTTAACT[C/C]TAACATCATATATCATACAGTGCAGGATTTATGA ACATACATAAAATCAAAATCATACCATATAAACGTTTACAAATAAGTTTTTCATGACACACGNGCA CTATTGCTCTTTAAATATGTTGTACATGTCATCATTAATCGATTCTTCTCCACATGGTTATTT CAATGCAAGANCCGATCAGCATGAAGAGTCTAGTACAAGATAGGCAGACATG

WI-6710	106	G A ---	---	CCATGGACAGTTTAATTAGGAAGCTTCGACCTTGTTAGATAACAGAGGAAGTCCAGTTCCTACCT ATTCCTTAAACACATTTTGTGAGGCTGGAATGATCCCGAJTAGTAAAACTCAACATCCACACCT GCATAAACATCGCCTCCCAAGTGACTATTTACTGAGTCGACACAGGATGTCACCAAGTGAGCCTC ATCCTCAGTCCAATGGAGGAGTTGACTTAGACCTTCCTGGACAGGAAGGTC
WI-6766b	148	G C ---	---	AAAACAAATGGTGCAATTGCATAATATTTGTGGTCACAGTATAAAACAATACAATTAGTTCATATAAC ATTGGATATGGACAAAAATACACANGATCCTTTCTTTGTCTACGGAAAAATNCTGCAGATCCTTATGT GCCACACTTAAANJG/CJAAAGTCAACGTTTCTCTTAGGNTCTGCACACATATTTATCACTGA GAATTTGGTCAACACAGTGGAGNGAACITACCCAAATCCCAGTTCCTTCCTC
WI-6766	148	G C ---	---	AAAACAAATGGTGCAATTGCATAATATTTGTGGTCACAGTATAAAACAATACAATTAGTTCATATAAC ATTGGATATGGACAAAAATACACANGATCCTTTCTTTGTCTACGGAAAAATNCTGCAGATCCTTATGT GCCACACTTAAANJG/CJAAAGTCAACGTTTCTCTTAGGNTCTGCACACATATTTATCACTGA GAATTTGGTCAACACAGTGGAGNGAACITACCCAAATCCCAGTTCCTTCCTC
WI-6787b	97	A G ---	---	ACAGATAAAGTCTTTATTCCTCTGTATGTTTACATAAAGAAAGTCTTTACAGACTTTTTTTTATACA ATACTTGTGCAGCAATGTTCAAATTTTCAACJGTTTTACTGCATAAGATATCTTCATGTACAACCTGT ATGCTTTGTCTTCTTGGGAAGGACGCGTTAAAGACCTATGATAAACACACATCCACATGACAAAAGGA GAGTGCATAGGGCAGAGTAGANTACTCACAGGAAAGAGTAAATTCAGGT
WI-6793	105	C G ---	---	GAAACCACAGGTCCTGTTATTTTAAAGGAGCATTTACATATGATAGCAAGTTTCAACACATTCA TCAACAAGGCGGCTTCAAATCAATCAGTCAACCCCGCJGAGTTAGAAAGTAGAGTCAATGAGGAA GAGCTGCTTGGCTGAGGAAGTAGGGTTAATGCCCTCTAATCCCGGAAAGGGCAGACTGAAGCCA GAGCCAGANTCCTGGCAATTCACCAGTTTCTCATCACAGGTAAAAAGGCAAC
WI-6810b	37	T C ---	---	CACAATAATAAATCACTCCCTACCTTGAAAACTTTATJ/CJAGAAAGCATTTTTTAAATTTACAACACA AAGCTCAAACGNACCTACAATAAGTCTAGTAGTCTGTTACNGCCAAAGGATAAGGCTGAACAATA AATTAACCCCTTAAAAATGTCTATGNACAAGTACAATTTCTTTTGTGCTGCAGAGCAATGACC ACTAAGNAATAATTTTAAAGGCTGAACAGAAATCCAGCGGCAATGAAGTTAAT
WI-6810	37	T C ---	---	CACAATAATAAATCACTCCCTACCTTGAAAACTTTATJ/CJAGAAAGCATTTTTTAAATTTACAACACA AAGCTCAAACGNACCTACAATAAGTCTAGTAGTCTGTTACNGCCAAAGGATAAGGCTGAACAATA AATTAACCCCTTAAAAATGTCTATGNACAAGTACAATTTCTTTTGTGCTGCAGAGCAATGACC ACTAAGNAATAATTTTAAAGGCTGAACAGAAATCCAGCGGCAATGAAGTTAAT
WI-6817b	145	C A ---	---	GCATGATTAACCAAGTGCAGAAAAATACCAAGTACATTTGGTGAACGATGAGCTAGCTGTTCTAGTA TTTGCTTTTGTAAATCCAGTTAAGACCATCAGCATATACAACATCATCACTAACTCAACAATGTAGCT GCAGGGTAAACJG/JGTGGATACCTGTGTGCTCTACTNGCCTCCAAAGGCATTCAGGGGATCATCA AAGATGTTGGACACCTTGTTTCAAAATCTTGTTTCAGGTGGGCTGTGCG

WI-6817	145 C A ---	---	GCATGATTAAACCAGTGCAGAAAAATACCAAGTACATTGGGTGAACGATGAGCTAGCTGTTCTAGTA TTTGCTTTTGTAAATCCAGTTAAGACCATCAGCATATACAAACATCATCACTAACTCAACAATGTAGCT GCAGGGTAAAC[C/A]JTGTTGATACCCCTGTGTGCTCTACTNGCCTCCAAAGGCATTCAGGGGATCATCA AAGATGTTGGACACCTTGTTGTTCAAAATCTTGTTACAGTGGCGCCTGTGGAG
WI-6819b	221 C ---	---	GATGGAAGCCATTATTTCTCTAAATTTAAATAGAAGACTTAAATGGAACAAATTTAGTAC CATCATGTCAACCCCTGAATGCCAGCAATACCTCGACTTTTACACACGCGAAGCCCTAGTAAAGCC CGTCAGTAGTACACATTTCTCTATGGTCTTCAACAGTTTGCATATACAAAATTTTCTGCTATTTTG CTTTAGCAACAGCAATAACTTTTGTGTTTCTCTATATGACACCTAATATCCAG
WI-6819a	175 GT ---	---	GATGGAAGCCATTATTTCTCTAAATTTAAATAGAAGACTTAAATGGAACAAATTTAGTAC CATCATGTCAACCCCTGAATGCCAGCAATACCTCGACTTTTACACACGCGAAGCCCTAGTAAAGCC CGTCAGTAGTACACATTTCTCTATGGTCTTCAACAGTTT[G/T]CATATACAAAATTTTCTGCTATT TTGCTTTAGCAACAGCAATAACTTTTGTGTTTCTCTATATGACACCTAATAT
WI-6826b	154 A G ---	---	GCAAAAAGCTTTATTGGCTCCAACAAATATCCCTTTTAAACCTCCTCTCTCTCTGCTCAGTG GAACAACACATTTGAATTCAGATTTGCAGTTTATAGCATTTTTCCTAAGAACCATATAAATAC ATGCAAAACCTTGACAT[G/G]GAGCTTAAATAATCAAAATGCAAAATATAGATTGGGTGCACTGT TAAGCTGAATTGCAAATATGGCAACACACACTGGACTGGGTATACGTTG
WI-6826	154 A G ---	---	GCAAAAAGCTTTATTGGCTCCAACAAATATCCCTTTTAAACCTCCTCTCTCTCTGCTCAGTG GAACAACACATTTGAATTCAGATTTGCAGTTTATAGCATTTTTCCTAAGAACCATATAAATAC ATGCAAAACCTTGACAT[G/G]GAGCTTAAATAATCAAAATGCAAAATATAGATTGGGTGCACTGT TAAGCTGAATTGCAAATATGGCAACACACACTGGACTGGGTATACGTTG
WI-6857a	122 T C ---	---	AGTGCAAACTATTTGAACAAAAGTAAACTATGAGTCACAGCATTCAGCAAGACATCAGACACGGA AGAGTGAACAATAATTCACCTAAGTAAATACAGCAGATGAGATGCTCTCACATGTAT[C/J]ATTTAAT TATTCATGCTTTTCAATAGTCTCTTAGTCAACTTTCAGTGTAAATTCACAAAATATATAGCAGCTCA AACACAAATGCAGGAGCACAATGGCAAAGTTTGGCAACTGTTTGGGCTAATT
WI-6865	153 G A ---	---	TTATAGAATACTTATGGGCATACGNGTAAATGAAGTGTCAACCTTAAATCTAAACAAACAGCTTG TTTGTTGTTGCTGCTGAAATCCCTGCTCACAACAGCCAGCTACTNGGTTTCTTAAAGACGTA ATTTGCAGGCAAACTTC[G/A]TAGAGCCATTCTGTGCAGAAGGGAAGGAGGAGCTGTTTGT TTACCTGTAGTATGAAGATATCTTTGCGCTGTAGAACTGAGCTCATTA
WI-6909	73 C T ---	---	ATTGAAAACCTGGTTAGCAACAGATAAATTACAATAGAGCCTGGATATAAAATGAGAGAAGAATGC AGACTTA[C/J]AAGCTTATAGAGAAAGTCAAAAAGGAGCAAGTTTGTGAATCAGATTTTATGATAC GGAAAAAAATTTCCCTTTTGGCAACAGGATTATTTGGAATAATAAATCTGCCAGTGCCCAATCAG AAACACCTTTCCACAATATTTGCAATGCCCTAGTTGCTTATTTATACATATC

WI-6910b	163	G T ---	---	CACTCAAAACCTTTATTCAATTGATTACAAAGTGTACAATAATTTACAAAGTTAGGCATTATCCCA TATTGACATGAATGCTGTGGAGAGTCTAAAATAAATATGTGGCACATAGCTTAATATACACATCAT GGCTCTTTACACCTTAAGCCATTACCAATA[G/J]TGAGATGTAATGGAGAAATTTAATGTGGTAGAAAA GTCAGAGTGGCTGACCGACCTCCATGTAATGACTCTTCCTTGGC
WI-6915	144	A ---	---	GCTTGTCTTTTGTGTTTAAAGTGACACCTTGGCTTGTGGGCATTTCTTCACTTATCTTACCC AAAAGTGCCCTTTGGGCCAGCCACTGACTGATTTAAACCCAGAAATGTGGTTTAAACAATGTGGT CGTGGTGAATTCAGGTGATTTTCTATTGTTAGTATTTTTCAGATTTCCACAAAGAACATG TATTGCTTTGTAAATTTGAAAAAATCAACACAGGATAGTAAAGATAT
WI-6928b	175	T C ---	---	CAATCAAAAAGTTCCTCAAGTTTCAAGCTGGGATGAAAAGCCAGGCTTCTGACTTGCACCTGTGCAC ACTGGATTTTNCCTCTGATCCAGCTGCAGCTCCCATAGAAGTTCACCTTAATTTTCATGTCCCATG CTTTGCTTGGTCCCTGTGAGGAAAGGGTCAAGCTAAAGG[J/C]AACTGTTCTATAAGGATGGGTAGG TATCCTGGCAAGATATTTCTCTGAAATAGTAAACGTGACCTTAGAAGTTA
WI-6928	175	T C ---	---	CAATCAAAAAGTTCCTCAAGTTTCAAGCTGGGATGAAAAGCCAGGCTTCTGACTTGCACCTGTGCAC ACTGGATTTTNCCTCTGATCCAGCTGCAGCTCCCATAGAAGTTCACCTTAATTTTCATGTCCCATG CTTTGCTTGGTCCCTGTGAGGAAAGGGTCAAGCTAAAGG[J/C]AACTGTTCTATAAGGATGGGTAGG TATCCTGGCAAGATATTTCTCTGAAATAGTAAACGTGACCTTAGAAGTTA
WI-6955b	79	G A ---	---	TTTTATGAACATTTTCAAGTCCCTCATATCAGCAGCACATCAATAGCAGTATGTACATAGACTGA CTTTTATAGTAC[G/A]NGTCATGTCCCAATTCCTCAATCCTAGGTAAGATATCAAGTTACAAANTAC AAGTGCCGNTAATTAACCTATAGGTAGTATATTAAACAAAATGNGTTTTTNGCAATTATGTGAAT AAGGCTTTAACCAAGC
WI-6955	79	G A ---	---	TTTTATGAACATTTTCAAGTCCCTCATATCAGCAGCACATCAATAGCAGTATGTACATAGACTGA CTTTTATAGTAC[G/A]NGTCATGTCCCAATTCCTCAATCCTAGGTAAGATATCAAGTTACAAANTAC AAGTGCCGNTAATTAACCTATAGGTAGTATATTAAACAAAATGNGTTTTTNGCAATTATGTGAAT AAGGCTTTAACCAAGC
WI-6957	47	C G ---	---	AAACTAAAAACCCCTTATTGTCTCCAAGTGTGGCAAAATAGAAAAT[C/G]TTTCAATTACATTAGG AAATCGGGTGGATAACGGAGTATAGTTATTCACCTTAAGAAGCATTCAGTCAATAATACAAAA ACAAATTCAGATTGCTTGGATCTTGGTCAATTTATGGCTTGAAGAACTGGATTGAAAACCACTTTAGG CTAAATAAATGTATATGAATAATGCATAGACTGTGTATCTAGAAAAATCATGC
WI-6996c	242	G T ---	---	ACTTCTAGTGCCTGTACCACACCTCTAATGCCCTCTGGTCCCGCACTTCTGTATGTCCTAGGCCT TAAATCTGCCTGGGTCCCTCCCTCTGTCTTCAGCAACCCAGAGGAGAGCCGGCAGTCCCTG CAGGAGAGAGGAGGGCTGCTGGACCCAAAGGCTCAGTCCCTCTGCTCTCAGGACCCCTGTCTGACT CTCTCCTGATGGTGGGCCCTCTGTGCTCTTCTCTTCC[G/J]GTGGGATC

WI-6996b	242	G T ---	---	ACTTAGTGCCTCTGTTACCAACCACCTCTAATGCCTCTGGTCGCCGCACCTTCTGATGTCCTGAGGCCT TAAATCGCCTGGCGTCCCTCCCTCTGCTTTCAGCACCCAGAGGAGAGAGCCGGCAGTTCCCTG CAGGAGAGAGGGGCTGCTGGACCCAAAGGCTCAGTCCCTCTGCTCTCAGGACCCCTGTCCTGACT CTCTCCTGATGGTGGCCCTCTGTGCTCTCTCTCTCCGTCGTTGTCGGATC
WI-6996	228	T G ---	---	ACTTCTAGTGCCTCTGTTACCAACCACCTCTAATGCCTCTGGTCGCCGCACCTTCTGATGTCCTGAGGCCT TAAATCGCCTGGCGTCCCTCCCTCTGCTTTCAGCACCCAGAGGAGAGAGCCGGCAGTTCCCTG CAGGAGAGAGGGGCTGCTGGACCCAAAGGCTCAGTCCCTCTGCTCTCAGGACCCCTGTCCTGACT CTCTCCTGATGGTGGCCCTCTGTTG/GCTCTCTCTCCGGTCGGATC
WI-7021b	112	G A ---	---	TGGGAGGACAGGGAGATGCTGCAGTTCCTCCAAAGAGAGGTTCTTCCAGAGTCATCTACCTGAGTC CTGAAGCTCCCTGTCCTGAAAGCCACAGACAATATGTTCCCAATG/AJCCCGACTGCACCTTCTGTG CTTCAGCTCTCTTGACATCAAGGCTCTTCCGTTCCACATCCACACAGCCAATCCAATTAATCAAACC ACTGTTATTACAGATAATAGCAACTTGGGAAATGCTTATGTTACAGGTTA
WI-7021	108	A G ---	---	TGGGAGGACAGGGAGATGCTGCAGTTCCTCCAAAGAGAGGTTCTTCCAGAGTCATCTACCTGAGTC CTGAAGCTCCCTGTCCTGAAAGCCACAGACAATATGTTCCCAATG/AJATGCCGACTGCACCTTCTGTG CTTCAGCTCTCTTGACATCAAGGCTCTTCCGTTCCACATCCACACAGCCAATCCAATTAATCAAACC ACTGTTATTACAGATAATAGCAACTTGGGAAATGCTTATGTTACAGGTTA
WI-7056c	118	C T ---	---	GGCAGTAGGACCAACAGTGTGGGTTCTGCTGGACCTTGGAGGCTGCATCCAGGATCGGGTGG CCCTGCAGCCTCTCCACCTCACCTCCATGACAGCGCTAAACGTTGGTGA/CJGGTGGGAGCCTCT GGGCTGTTGAAGTCACCTTGTGTGTTCCAAAGTTTCCAAACAACAGAAAGTCATTCCTCTTTTAAA ATGTCCTTAAGTTCAGCAGATGCCACATAAGGGGTTGCCATTTGATA
WI-7056b	118	C T ---	---	GGCAGTAGGACCAACAGTGTGGGTTCTGCTGGACCTTGGAGGCTGCATCCAGGATCGGGTGG CCCTGCAGCCTCTCCACCTCACCTCCATGACAGCGCTAAACGTTGGTGA/CJGGTGGGAGCCTCT GGGCTGTTGAAGTCACCTTGTGTGTTCCAAAGTTTCCAAACAACAGAAAGTCATTCCTCTTTTAAA ATGTCCTTAAGTTCAGCAGATGCCACATAAGGGGTTGCCATTTGATA
WI-7091b	153	A C ---	---	AATTCGCTGAAAAAGGAACCTACCTATCCTTACATTTACCTACTAATGTCCTCTTAACATCTTAGAG GTCCATGGAGAGGCATATGGAGAACATGTTTATACTGCTCTATAAATAGTATTCCAATCACTGTG CTTAATTTAAATAGCATT/AJCTTATCATTTATCAGCCTTTTATGTTTCCAAAGTAAAAATATTA ACATATTATTTCATTGGTCTCTTTTATCTGGTTCTATATGAATGCTAT
WI-7091	153	A C ---	---	AATTCGCTGAAAAAGGAACCTACCTATCCTTACATTTACCTACTAATGTCCTCTTAACATCTTAGAG GTCCATGGAGAGGCATATGGAGAACATGTTTATACTGCTCTATAAATAGTATTCCAATCACTGTG CTTAATTTAAATAGCATT/AJCTTATCATTTATCAGCCTTTTATGTTTCCAAAGTAAAAATATTA ACATATTATTTCATTGGTCTCTTTTATCTGGTTCTATATGAATGCTAT

[illegible]

II-7175	194	CT ---	---	CTCCTAGACTAGTGCTTTACCTTTAATGAAGTGTGACAGGAGCCCAAGGCAGTGTTCCTCACCA ATAACTTCAGAGAAAGTCAGTTGGAGAAATGAAGAAAAGGCTGGCTGAAATCACTATAACCATC AGTTACTGGTTTCAGTTGACAAAATATAATAGTTTACTGCTGCTATGTCCTATGTCCTA[C]TJAGAT AATTTATTTGTAATTTGAATAAAAACATTTGTACATTCCTGATACTGGG
II-7178b	273	GA ---	---	TGTATCAGGTCAGGGACTTGGACAGGAGTCAGTGTCTGGCTTTTCTCTGAGCCAGCTGCCTGGAG AGGGTCTCGCTGTCAGTGGCTGCTCTAGGGGAACAGACAGTACCCAGAAAAGCATACACCA ATCCAGGGCTGGCTCTGCACCTAAGAGAAAATTCACCTAAATGAATCTGTTCCCAAAGAACTACCC CCTTTTCAGCTGAGCCCTGGGGACTGTTCCAAAGCCAGTGAATGTGAAGGAA
VI-7178	273	GA ---	---	TGTATCAGGTCAGGGACTTGGACAGGAGTCAGTGTCTGGCTTTTCTCTGAGCCAGCTGCCTGGAG AGGGTCTCGCTGTCAGTGGCTGCTCTAGGGGAACAGACAGTACCCAGAAAAGCATACACCA ATCCAGGGCTGGCTCTGCACCTAAGAGAAAATTCACCTAAATGAATCTGTTCCCAAAGAACTACCC CCTTTTCAGCTGAGCCCTGGGGACTGTTCCAAAGCCAGTGAATGTGAAGGAA
VI-7182b	116	AC ---	---	GCATATTTGGCAGCTTATTGCTTCGAAACCCAGCTGGTCACCAAAAGCTTGATATACAGAGAAGAAG AAGGCTCAAGAAATTTATTCACAGTTCCTCTGCAACCCACTGTGAGCC[T]CJCTCTCCTCTATTT TACTTGAGGCTGCCAATTACAGCCCCACGTTTCAGCTCAAGAGATGCCCTTAAGATAATTATGTGAGG CCACTTGGTAGCAAGAATGGCAGCTATTTCTGAAGCCTAGTACCCCAATT
VI-7182	106	CA ---	---	GCATATTTGGCAGCTTATTGCTTCGAAACCCAGCTGGTCACCAAAAGCTTGATATACAGAGAAGAAG AAGGCTCAAGAAATTTATTCACAGTTCCTCTGCAACCCACTGTGAGCC[T]CJCTCTCCTCTATTT TACTTGAGGCTGCCAATTACAGCCCCACGTTTCAGCTCAAGAGATGCCCTTAAGATAATTATGTGAGG CCACTTGGTAGCAAGAATGGCAGCTATTTCTGAAGCCTAGTACCCCAATT
VI-7191b	273	TA ---	---	ATAATTGCTTGTGTTTCTAGCCTGGCAAGATATTTCTATAAAGAGGGATAACAATGCTGATTACTAC CTTTTAAATATTTAGATAAATGCACAGCACACAGCACACATCTAAGCATTAGTGATGGGTAGC TGATGTCAGCTTCATGTGGAATTTAAGCACTCTAGAAAACAAATGAAGCTTCTTGGCATAATTTAAGGAG CTCCCAAATGTGTACCTATTAAATGTAAGTCAAGTAGAAGACCATTT
VI-7199c	112	TC ---	---	CCCAGTGGTGAACAGAACCTCCCAAATTTGAGTTGCACCCCTCCCTGTGGCCTTATGAGCTCAGCCTC GCTTTGAGGTACCCACCGCTCTGTCAGCTCCTTGACCTATGAGCT[C]JGGGGCCTGACTAGGAAAAGT TGGAGTTAAGGAGGAAATTAGCATTCCTTAATGTTTGTGTTGGTCTGAAATTTCTCTTTATTAT AGTCTATAGTTTTACTCCTCAGTTCCTCACCATCATCTTGCTAA
VI-7199b	112	TC ---	---	CCCAGTGGTGAACAGAACCTCCCAAATTTGAGTTGCACCCCTCCCTGTGGCCTTATGAGCTCAGCCTC GCTTTGAGGTACCCACCGCTCTGTCAGCTCCTTGACCTATGAGCT[C]JGGGGCCTGACTAGGAAAAGT TGGAGTTAAGGAGGAAATTAGCATTCCTTAATGTTTGTGTTGGTCTGAAATTTCTCTTTATTAT AGTCTATAGTTTTACTCCTCAGTTCCTCACCATCATCTTGCTAA

WI-7216c	237	T C ---				TGACACTAACACTCTAATCAAGCGAATGTTGGAACACCATGACCTCCTCTGTGTGCTCTTCTCCTCC
						AAGGACAAAATGTAGAAAGATGTAGATAAATCTACTCAAGATTCCCTCCAGAAAAATACGTATGT
						TTAAAAACCCCTTCTGCTATACATAGGAAAAAGACACACATCCACCTAAAAATTGACTGTACTGTTTAA
						CTGTCAATTCTCCTGAGGCTAAACACAGTTTGTTTTCCTTGTAATCACTT
WI-7216b	237	T C ---				TGACACTAACACTCTAATCAAGCGAATGTTGGAACACCATGACCTCCTCTGTGTGCTCTTCTCCTCC
						AAGGACAAAATGTAGAAAGATGTAGATAAATCTACTCAAGATTCCCTCCAGAAAAATACGTATGT
						TTAAAAACCCCTTCTGCTATACATAGGAAAAAGACACACATCCACCTAAAAATTGACTGTACTGTTTAA
						CTGTCAATTCTCCTGAGGCTAAACACAGTTTGTTTTCCTTGTAATCACTT
WI-7220b	147	A T ---				AGGATGATGCTCCAAAGGGGACCTTGAACCTATTACCATATTGTCTCTTTAAGCTGGCAACCCCA
						TCATTAAATAGCACATAAAATAGCAATCATATGGGATAAGTAGTACAGCTTCAGTAATCAATGGGCA
						GTGGCACTAGAAATTAATCTTGAGCACAGTGAATGACCTATCCTGCAACACATCTAATGGATCTCTA
						AAGGGTAACAAACCCCTATAAATCTGGCTTACTGCACATATTAGTGTGTTT
WI-7220	140	A T ---				AGGATGATGCTCCAAAGGGGACCTTGAACCTATTACCATATTGTCTCTTTAAGCTGGCAACCCCA
						TCATTAAATAGCACATAAAATAGCAATCATATGGGATAAGTAGTACAGCTTCAGTAATCAATGGGCA
						GTGGCACTAGAAATTAATCTTGAGCACAGTGAATGACCTATCCTGCAACACATCTAATGGATCTCTA
						AAGGGTAACAAACCCCTATAAATCTGGCTTACTGCACATATTAGTGTGTTT
WI-7226	232	C ---				GATCGAATTTTTCAGATGATTCGGAATTTTCATTCAGGTATTGTAATAGTGACATATATGTATA
						TACATATCACCTCCTATTCTCTTAATTTTGTAAATGTTAACTGGCAGTAAGTCTTTTGTGATCATTT
						CCCTTTTCCATATAGGAAACATAAATTTGAAGTGGCCAGATGAGTTTATCATGTCAGTGAAAAATAA
						TTACCCACAAATGCCACCAGTAACCTAACGATTTCTCACITCTTGGGGTTT
WI-7228b	254	G A ---				ATAGCTCCAGATTACAAAGGCCAAGGTAATAGAAATGCATACCAGTAATTTGGCTCCAATTCATAA
						TATGTTCCAGGAGATTACAAATTTTGTCTCTTCTGCTTTGTAATCTATTTAGTTGATTTTAATTA
						CTTTCTGAATAACGGAAGGATCAGAAGATATCTTTGTGCCTAGATTGCAAAATCTCCAATCCACA
						CATATTGTTTTAAATAAGAATGTTATCCAACTATTAAAGATATCTCAATGTT
WI-7228a	163	G A ---				ATAGCTCCAGATTACAAAGGCCAAGGTAATAGAAATGCATACCAGTAATTTGGCTCCAATTCATAA
						TATGTTCCAGGAGATTACAAATTTTGTCTCTTCTGCTTTGTAATCTATTTAGTTGATTTTAATTA
						CTTTCTGAATAACGGAAGGATCAGAAAGATATCTTTGTGCCTAGATTGCAAAATCTCCAATCC
						ACACATATTGTTTTAAATAAGAATGTTATCCAACTATTAAAGATATCTCAAA
WI-7233c	213	C T ---				CGATCGTACTGCCAGTAGCATTTGCTGTCTGTCCGGCTTGTGTTGTACATTCATTTTCAATTGTTACA
						GATGTGAACITTTATTCCTTGTCACATAATATAATTTAAAAATTTTCTAGGAAAGTCAAAAAATATAA
						TAAAGGGTTGAGCCCTCTACTTTCTTGTGCCACCTTTTGTGGCAATATTAAAGTGAAGTGCCTAATA
						GTGTAAGTATCTGTGCACAAACCACTGCCAGATAACCAGAGGGGCTG

NI-7252a	520 T C ---	---	---	CCACAGGATCCACAGCCCAAGCGGCCCTCCGCCCTCCACTCGCAGCAGCCCGGGGACAGAG GCCTGCGGGCGGCCAGCCCGGCCCTGGCTGGAGGCTGCCCCGGCCCCCTGGTCTCTGGTCCG GACACTCCTAGAGAACGACGCCCTAGAGCCTGCCCTGGAGCGTTCTAGCAAGTGAGAGAGATGGGAG CTCCTCTCCTGGAGGATGCAGGTGGAACCTCAGTCATAGACTCCTCCTCCA
WI-7265m	252 T A ---	---	---	AACTTGGTTATGTCAGTTCCTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTCCAGTATGTTTATTTGCCACCAAAAGTAAATGCATTTTACCCATTCTGTGGTTTCATTGTAGTT TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATTATATGTAATAATAACGATCTCTT AAAAATACCACAGTTTGATTTTTTCTTTAAGGAGTAAAGATTTCCTTTT
WI-7265l	231 T A ---	---	---	AACTTGGTTATGTCAGTTCCTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTCCAGTATGTTTATTTGCCACCAAAAGTAAATGCATTTTACCCATTCTGTGGTTTCATTGTAGTT TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATTATATGTAATAATAACGATCTCTT AAAAATACCACAGTTTGATTTTTTCTTTAAGGAGTAAAGATTTCCTT
WI-7265k	121 T G ---	---	---	AACTTGGTTATGTCAGTTCCTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTCCAGTATGTTTATTTGCCACCAAAAGTAAATGCATTTTACCCATTCTGTGGTTTCATTGTAGTT GTTTAAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATTATATGTAATAATAACGATCT CTTAAAAATACCACAGTTTGATTTTTTCTTTAAGGAGTAAAGATTTCCTT
WI-7265j	174 T A ---	---	---	AACTTGGTTATGTCAGTTCCTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTCCAGTATGTTTATTTGCCACCAAAAGTAAATGCATTTTACCCATTCTGTGGTTTCATTGTAGTT TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATTATATGTAATAATAACGATCTCT CTTAAAAATACCACAGTTTGATTTTTTCTTTAAGGAGTAAAGATTTCCTT
WI-7265i	227 T C ---	---	---	AACTTGGTTATGTCAGTTCCTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTCCAGTATGTTTATTTGCCACCAAAAGTAAATGCATTTTACCCATTCTGTGGTTTCATTGTAGTT TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATTATATGTAATAATAACGATCTCTT AAAAATACCACAGTTTGATTTTTTCTTTAAGGAGTAAAGATTTCCTT
WI-7265h	80 T A ---	---	---	AACTTGGTTATGTCAGTTCCTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTCCAGTATGTTTATTTGCCACCAAAAGTAAATGCATTTTACCCATTCTGTGGTTTCATTGTAGTT GTTTAAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATTATATGTAATAATAACGATCTCT CTTAAAAATACCACAGTTTGATTTTTTCTTTAAGGAGTAAAGATTTCCTT
WI-7265g	170 T G ---	---	---	AACTTGGTTATGTCAGTTCCTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTCCAGTATGTTTATTTGCCACCAAAAGTAAATGCATTTTACCCATTCTGTGGTTTCATTGTAGTT TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATTATATGTAATAATAACGATCTCT CTTAAAAATACCACAGTTTGATTTTTTCTTTAAGGAGTAAAGATTTCCTT

NI-7265f	231	T A ---	---	AAC TTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTCCAGTATGTTTATTTGCCACCAAAAAGTAAATGCATTTTACCCATTCTGTGGTTCATTGTAGTT TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATATATATGTAATAATAACGATCTCTT AAAAATACCACAGTTTGATTTTCTTTT/AAGGAGTAAAGATTGCGCT
NI-7265e	227	T C ---	---	AAC TTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTCCAGTATGTTTATTTGCCACCAAAAAGTAAATGCATTTTACCCATTCTGTGGTTCATTGTAGTT TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATATATATGTAATAATAACGATCTCTT AAAAATACCACAGTTTGATTTT/CCTTAAGGAGTAAAGATTGCGCT
WI-7265d	174	T A ---	---	AAC TTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTCCAGTATGTTTATTTGCCACCAAAAAGTAAATGCATTTTACCCATTCTGTGGTTCATTGTAGTT TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATATATATGTAATAATAACGATCT CTTAAAAATACCACAGTTTGATTTTCTTTAAGGAGTAAAGATTGCGCT
WI-7265c	170	T G ---	---	AAC TTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTCCAGTATGTTTATTTGCCACCAAAAAGTAAATGCATTTTACCCATTCTGTGGTTCATTGTAGTT TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATATATATGTAATAATAACGATCT CTTAAAAATACCACAGTTTGATTTTCTTTAAGGAGTAAAGATTGCGCT
WI-7265b	121	T G ---	---	AAC TTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTCCAGTATGTTTATTTGCCACCAAAAAGTAAATGCATTTTACCCATTCTGTGGTTCATTGTGTA GTTTAAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATATATGTAATAATAACGATCT CTTAAAAATACCACAGTTTGATTTTCTTTAAGGAGTAAAGATTGCGCT
WI-7265a	80	T A ---	---	AAC TTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTCCAGTATGTTTATTTGCCACCAAAAAGTAAATGCATTTTACCCATTCTGTGGTTCATTGTGTA GTTTAAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATATATGTAATAATAACGATCT CTTAAAAATACCACAGTTTGATTTTCTTTAAGGAGTAAAGATTGCGCT
WI-7281b	183	C ---	---	GATCACCCAGCCACAAAGCCCTTCGAGGGCCCTATACCATGGCCACCTTGAGCAGAGAGCCAAAGC ATCTCCCTGGGAAGTCTTTCTGCCCAAGTCTGCCAGCCTGGCCCTGCAGGTCTCCCATGAAGGCCA CCCCATGCTGATGGGCATGAAGCATCTCAGACTCTTGGCAAAAACGGAGTCCGCAGGCCGCGAG GTGTTGTGAAGACCACTCGTTCTGTGGTGGGGTCTGCAAGAAGGCCCTCCTC
WI-7281	171	C A ---	---	GATCACCCAGCCACAAAGCCCTTCGAGGGCCCTATACCATGGCCACCTTGAGCAGAGAGCCAAAGC ATCTCCCTGGGAAGTCTTTCTGCCCAAGTCTGCCAGCCTGGCCCTGCAGGTCTCCCATGAAGGCCA CCCCATGCTGATGGGCATGAAGCATCTCAGACTCTCAGACTCTC/AJTTGGCAAAAACGGAGTCCGCAGGCCG CAGGTGTTGTGAAGACCACTGTTCTGTGGTGGGGTCTGCAAGAAGGCCCT

I-7282b	159 G C ---	---			TGTCACCTGGCACATTCATTTTCTCAGTTGAAGAAGAGAAAAATTTGAAAAATGTCCTTATGCTTTTAGA GTTGCAACTTAAGTATATTTGGTAGGGTGAGTGTTCACACTCAAAAATATGTCAACTTNNNNNNNNNT AGGCCCTTTCATAAAAACCAAACT[G/C]TAGCAAGATGCAATGCATGGCAAAATCTGTCGGTCTCCA GTTGGTTATCTGAATAGTGTCACCAATTCACCAAGACAGTGCTGAGATTGG
I-7292	92 T C ---	---			CTTGATTACTTCCACTGAGGTGGGAGCATCTCCAGTGCTCCCCAATATATCTCCCCACTCCACTAC TCTCTCCTCCACTTCATTTTCC[T/C]TTGTCCTTCTCTCTAATTCAGTGTTTGGAGGCTGACTTGG GGGACAACTGATTTATGATATTATGCTGTTTCCCTTCTCCCAATAGAAGAATAAGTCATGGAGCC TGAAGGGTGCTAGTTGACTTACTGACAAAAGGCTCTAGTTGGGCTGA
I-7301f	133 A G ---	---			AACTATGGCAGTGGTCTGGTTATAGTAGAGGCGGGTATGGTGGTGACCAAGGATATGGAA ACCAAGGTGGTGATATGGTGGCGGTGTGGAGGATATGATGTTACAATGAAGGAGGAAATTTTG A/GJCGGTAGTAACATATGGTGGTGGGAACATAATGATTTTGGAAATTACAGTGGACAACAGCA ATCAAAATTATGGACACATGAAAGGGGCGAGTTTGGTGAAGAAGCTCGGGCAG
I-7301e	94 T G ---	---			AACTATGGCAGTGGTCTGGTTATAGTAGAGGCGGGTATGGTGGTGACCAAGGATATGGAA ACCAAGGTGGTGATATGGTGGCGGTGT/GJTGAGGATATGATGTTACAATGAAGGAGGAAATTT TGACGGTAGTAACATATGGTGGTGGGAACATAATGATTTTGGAAATTACAGTGGACAACAGCAA TCAAAATTATGGACACATGAAAGGGGCGAGTTTGGTGAAGAAGCTCGGGCAG
I-7301d	138 A G ---	---			AACTATGGCAGTGGTCTGGTTATAGTAGAGGCGGGTATGGTGGTGACCAAGGATATGGAA ACCAAGGTGGTGATATGGTGGCGGTGTGGAGGATATGATGTTACAATGAAGGAGGAAATTTGA CGGT[A/G]GTAACATATGGTGGTGGGAACATAATGATTTTGGAAATTACAGTGGACAACAGCAA TCAAAATTATGGACACATGAAAGGGGCGAGTTTGGTGAAGAAGCTCGGGCAG
I-7301c	211 A C ---	---			AACTATGGCAGTGGTCTGGTTATAGTAGAGGCGGGTATGGTGGTGACCAAGGATATGGAA ACCAAGGTGGTGATATGGTGGCGGTGTGGAGGATATGATGTTACAATGAAGGAGGAAATTTGA CGGTAGTAACATATGGTGGTGGGAACATAATGATTTTGGAAATTACAGTGGACAACAGCAATCA AATTATGGAC[A/C]CATGAAAGGGGCGAGTTTGGTGAAGAAGCTCGGGCAG
I-7301b	182 C T ---	---			AACTATGGCAGTGGTCTGGTTATAGTAGAGGCGGGTATGGTGGTGACCAAGGATATGGAA ACCAAGGTGGTGATATGGTGGCGGTGTGGAGGATATGATGTTACAATGAAGGAGGAAATTTGA CGGTAGTAACATATGGTGGTGGGAACATAATGATTTTGGAAATT[A/C]TAGTGGACAACAGCAA TCAAAATTATGGACACATGAAAGGGGCGAGTTTGGTGAAGAAGCTCGGGCAG
I-7301	88 G T ---	---			AACTATGGCAGTGGTCTGGTTATAGTAGAGGCGGGTATGGTGGTGACCAAGGATATGGAA ACCAAGGTGGTGATATGGT[G/G]CGGTGTGGAGGATATGATGTTACAATGAAGGAGGAAATTT TGACGGTAGTAACATATGGTGGTGGGAACATAATGATTTTGGAAATTACAGTGGACAACAGCAA TCAAAATTATGGACACATGAAAGGGGCGAGTTTGGTGAAGAAGCTCGGGCAG

VI-7301	205 A C ---	---	---	AACTATGCCAGTGGTCCTGGTTATAGTAGAGGGGGTATGGTGGTGGTGGACCCAGGATATGGAA ACCAAGGTGGTGATATGGTGGCGGTGTTGGAGGATATGATGTTACATGAAGGAGGAAATTTTGA CGGTAGTAACATATGGTGGTGGGAACTATAATGATTTTGGAAATTACAGTGGACAACAGCAATCA AATTACITGGACACATGAAAGGGGGCAGTTTGGTGAAGAAGCTCGGGCAG
NI-7314c	49 G A ---	---	---	CTCTCCTTTTCTTCAGATCTGCTCCTGGGTTTAAATTTGGGAGGTCA[G/A]TTGTTCTACCTCACTG AGAGGGAACAGAGGATATTGCTTCCCTTTGCAGCAGTGAATAAAGTCAATTAATAAACTTCCCAGG ATTCTTTGGACCCAGGAACAGCCATGTGGGTCCTTCTGTGCACATGAACGCTTCTTCCCAGGA CAGAAAATGTGTAGTCTACCTTATTTTTTATTAAACAAAACCTTGTTTTT
NI-7314b	49 G A ---	---	---	CTCTCCTTTTCTTCAGATCTGCTCCTGGGTTTAAATTTGGGAGGTCA[G/A]TTGTTCTACCTCACTG AGAGGGAACAGAGGATATTGCTTCCCTTTGCAGCAGTGAATAAAGTCAATTAATAAACTTCCCAGG ATTCTTTGGACCCAGGAACAGCCATGTGGGTCCTTCTGTGCACATGAACGCTTCTTCCCAGGA CAGAAAATGTGTAGTCTACCTTATTTTTTATTAAACAAAACCTTGTTTTT
WI-7314	36 A G ---	---	---	CTCTCCTTTTCTTCAGATCTGCTCCTGGGTTTAA[G/TT]TTGGAGGTCA[G/A]TTGTTCTACCTCACTG AGAGGGAACAGAGGATATTGCTTCCCTTTGCAGCAGTGAATAAAGTCAATTAATAAACTTCCCAGG ATTCTTTGGACCCAGGAACAGCCATGTGGGTCCTTCTGTGCACATGAACGCTTCTTCCCAGGA CAGAAAATGTGTAGTCTACCTTATTTTTTATTAAACAAAACCTTGTTTTT
WI-7321b	199 C T ---	---	---	ACTCAGGGAAGGGATGCCCCATTAAAGTGACAAAAGGGTGGGTGGGCACTGGCATGAGGAAG AAACAAGTCCCTGAGCAGGCACAAAGTCTGACAGTCAAGGACTGCTTTGGCATCCAGGGCCTCCA GTCACCTCACTGCCATACATTAGAAATGAGACAATCAAAGNNNNNNNAGGGTGGCACACCCCATC[C /T]GTTTGTGGGTGTGGCAGCCACATCCAAAGACTGGAGCAGCAGGCTGGCCA
WI-7321	199 C T ---	---	---	ACTCAGGGAAGGGATGCCCCATTAAAGTGACAAAAGGGTGGGTGGGCACTGGCATGAGGAAG AAACAAGTCCCTGAGCAGGCACAAAGTCTGACAGTCAAGGACTGCTTTGGCATCCAGGGCCTCCA GTCACCTCACTGCCATACATTAGAAATGAGACAATCAAAGNNNNNNNAGGGTGGCACACCCCATC[C /T]GTTTGTGGGTGTGGCAGCCACATCCAAAGACTGGAGCAGCAGGCTGGCCA
WI-7336b	248 A C ---	---	---	AGACATTCTCGTTCCTGAAAGACTGAAGAAAGTGTAGTGCATGGGACCCACGAAACTGCCCTGGC TCCAGTGAACCTTGGGCACATGCTCAGGCTACTATAGGTCCAGAAGTCCATTATGTTAAGCCCTGGCAG GCAGGTGTTTATTAATCTGAATTTGGGATTTTCAAAAGATAATATTTACATACACTGTATGT TATAGAACCTTCATGGATCAGATCTGGGGCAGCAACCTATAAATCA[A/C]CA
WI-7338c	221 A G ---	---	---	CTCTTCTCAGCACATTGATGGGCAACTAGAAATACAGCAGTTTCAAACTCTACCATGGATAATGCA AACAAACCGAAGCTACATGCCAATGATAGGTGCAAGAATATTGGCAAAAGGTGCTTTACCTTGAGC CATTATTTGTGTGAGAGAACAACAAAGAAACAGAAATCAATATATAAATTCAAAGACTATCTGCAGCTA GTGTGTTCTTCTTTACACAC[A/G]TATACACACAGACATCAGAAATTTCTGTT

JI-7338b	125	A C ---			CTCTTCTCAGCACATTGATGGGCAACTAGAATTACAGCAGTTTCAAACCTCTACCATGGATAATGCA AACAAACCGAAGCTACATGCCAATGATAGGTGCAAGAATATTGGCAAAAGGTGCTTT[A/C]CCTTG AGCCATTATTTGTGTCAGAGAACAAAGAAACAGAAATCAATATATATAAATTCAAAGACTATCTGCAG CTAGTGTTCTTCTTTACACACATATACACACAGACATCAGAAAATTCCTGTT
VI-7338	125	A C ---			CTCTTCTCAGCACATTGATGGGCAACTAGAATTACAGCAGTTTCAAACCTCTACCATGGATAATGCA AACAAACCGAAGCTACATGCCAATGATAGGTGCAAGAATATTGGCAAAAGGTGCTTT[A/C]CCTTG AGCCATTATTTGTGTCAGAGAACAAAGAAACAGAAATCAATATATATAAATTCAAAGACTATCTGCAG CTAGTGTTCTTCTTTACACACATATACACACAGACATCAGAAAATTCCTGTT
VI-7338	221	A G ---			CTCTTCTCAGCACATTGATGGGCAACTAGAATTACAGCAGTTTCAAACCTCTACCATGGATAATGCA AACAAACCGAAGCTACATGCCAATGATAGGTGCAAGAATATTGGCAAAAGGTGCTTTACCTTGAGC CATTATTTGTGTCAGAGAACAAAGAAACAGAAATCAATATATATAAATTCAAAGACTATCTGCAGCTA GTGTTGTTCTTCTTTACACAC[A/G]TATACACACAGACATCAGAAAATTCCTGTT
NI-7384c	146	T A ---			CCTATGTCAATGAAATGCTAGGGGCCAGGGAAACAAAATTTTAAAAATAATAAAATTCACCATAG CAATACAGAATAACTTTAAAAATACCATTAATACATTTGATTTCATTGTGAACAGGTATTTCTTCA CAGATCTCATTTT[A/J]AAAAATCTTAATGATTATTTTATTACTTACTGTTTAAAGGGGATGTTA TTTTAAAGCATATACCATACACTTAAGAAAATTTGAGCAGAAATTTAAAAAAGAA
NI-7384b	146	T A ---			CCTATGTCAATGAAATGCTAGGGGCCAGGGAAACAAAATTTTAAAAATAATAAAATTCACCATAG CAATACAGAATAACTTTAAAAATACCATTAATACATTTGATTTCATTGTGAACAGGTATTTCTTCA CAGATCTCATTTT[A/J]AAAAATCTTAATGATTATTTTATTACTTACTGTTTAAAGGGGATGTTA TTTTAAAGCATATACCATACACTTAAGAAAATTTGAGCAGAAATTTAAAAAAGAA
WI-7384	145	T A ---			CCTATGTCAATGAAATGCTAGGGGCCAGGGAAACAAAATTTTAAAAATAATAAAATTCACCATAG CAATACAGAATAACTTTAAAAATACCATTAATACATTTGATTTCATTGTGAACAGGTATTTCTTCA CAGATCTCATTTT[A/J]AAAAATCTTAATGATTATTTTATTACTTACTGTTTAAAGGGGATGTTA TTTTAAAGCATATACCATACACTTAAGAAAATTTGAGCAGAAATTTAAAAAAGAA
WI-7388c	106	A T ---			TGAAATCCTGGGTCTCTGGCCCTGCTGTAGCTGGTTATTTTACTTTGCCCTCCACATTTTTT TGAGATCCATCCTTTATCAAGAAAGTCTGAAGCGACTT[A/T]TAAAGGTTTTTGAATTCAGATTTAAAA ACCAACTTATAAGCATTGCAACAAGGTACCTCTATTTTGCACAAAGCGTCTCGGGATTGTGTTTGA CTTGTTGCTGTGCCAAGAACTTTTCCCCCAAGATGTGTATAGTTATGG
WI-7388b	106	A T ---			TGAAATCCTGGGTCTCTGGCCCTGCTGTAGCTGGTTATTTTACTTTGCCCTCCACATTTTTT TGAGATCCATCCTTTATCAAGAAAGTCTGAAGCGACTT[A/T]TAAAGGTTTTTGAATTCAGATTTAAAA ACCAACTTATAAGCATTGCAACAAGGTACCTCTATTTTGCACAAAGCGTCTCGGGATTGTGTTTGA CTTGTTGCTGTGCCAAGAACTTTTCCCCCAAGATGTGTATAGTTATGG

NI-7388	94 T A ---	---	TGAAATCCTGGGTCTCTGGCCTGTCTGTAGTGGTTATTTTACTTTGCCCCCTCCACACITTTTT TGAGATCCATCCTTTTATCAAGAAAGT[A]CTGAAGCGACTATAAAGGTTTTTGAATTCAGATTTAAAA ACCAACTTATAAAGCATTGCAACAAGGTACCTCTATTTTGCACAAAGCGTCTCGGGATTGIGTTTGA CTTGCTGTCTCCAAGAACTTTTCCCCCAAGATGTGTATAGTTATTGG
NI-7438	64 A G ---	---	TTAGATTTTAATTGGCAACCAGCAACTCACTGCCACCATTCACACTGCAGATCTNCTATTCTCTGG[A/G] GTTGATATGACAAGGAACCCCTATTGGAAACCAAGTCTTCAAGATTGTCAGATTGTCAGACAGGCTCCT TGCTGTAGGTGTAGTAGCATGTACACTGTACTGTCTCACTGTACATAGTTTGTNCTGTGTTATTTGTTA TTGGAATGAATATCGCTTCCACTGACTTTTACCA
NI-7454b	152 T C ---	---	CCATGATCCCCCTCCTCTTGCCAAATGGAGGAAGCCTGTGGATGGTACCAACAACAGCCCCAAACC CAGTACAAACTGAGAAATGAGAGAACCCCTGATAGCACTGTCTGAATTGCCAGGAGCCTCCAAGGCTAA TCCTACCCCTGGATTCTT[C]TGTTGTTTAAAGTTATTTCTAGCCACCACAAAGAGGGTACTGCCCAA CAGACTCATCCTTAAANAATCCCATTTGTCTACTTCTCAAAATGTTTTGACA
WI-7454	152 T C ---	---	CCATGATCCCCCTCCTCTTGCCAAATGGAGGAAGCCTGTGGATGGTACCAACAACAGCCCCAAACC CAGTACAAACTGAGAAATGAGAGAACCCCTGATAGCACTGTCTGAATTGCCAGGAGCCTCCAAGGCTAA TCCTACCCCTGGATTCTT[C]TGTTGTTTAAAGTTATTTCTAGCCACCACAAAGAGGGTACTGCCCAA CAGACTCATCCTTAAANAATCCCATTTGTCTACTTCTCAAAATGTTTTGACA
WI-7464c	177 G C ---	---	AATTTGAAAATCTGAAAAAAGTGCATAAGCAGAGAAATGACACTTATTCCAAATAAATAAATTGT CCATTTTCACTCAGTCCATCTTAACCATGTACAATGCATAAATCTATTTATAATTTCCCTATGTA CAACAGAGCCACAGCACAGAGGGTGGGCATAAGCAGTTGCCA[G/C]CCAGAAGAGCTTTCACATCAT GAAAGAAAGCCCTACAAATAGGCCCCAGGAGAAAGCAACGTTCAACCAACAATTAT
WI-7464b	168 C A ---	---	AATTTGAAAATCTGAAAAAAGTGCATAAGCAGAGAAATGACACTTATTCCAAATAAATAAATTGT CCATTTTCACTCAGTCCATCTTAACCATGTACAATGCATAAATCTATTTATAATTTCCCTATGTA CAACAGAGCCACAGCACAGAGGGTGGGCATAAG[C/A]AGTTGCCAGCCAGAGAGCTTTCACATCAT GAAAGAAAGCCCTACAAATAGGCCCCAGGAGAAAGCAACGTTCAACCAACAATTAT
WI-7464a	103 C A ---	---	AATTTGAAAATCTGAAAAAAGTGCATAAGCAGAGAAATGACACTTATTCCAAATAAATAAATTGT CCATTTTCACTCAGTCCATCTTAACCATGTACAATGCATAAATCTATTTATAATTTCCCTAT GTACAACAGAGCCACAGCACAGAGGGTGGGCATAAGCAGTTGCCAGCCAGAGAGCTTTCACATCAT GAAAGAAAGCCCTACAAATAGGCCCCAGGAGAAAGCAACGTTCAACCAACAATTAT
WI-7499b	134 T G ---	---	CAATTCTCAATCCAACCTAGTCTGTNTGCCTAAACCATTCAGACAAACTCCACTTCGAAGGTTTTTA AATGCATAAGTCAGATAGCAATCCTTCAGTTGCCCCAGAGGCACATCAGCTTCTTTGAATGCTTCA[T /G]TATAGTCCTCTTCAATTTAGCAATCAGTGAAGGCAATACACTGGCATCATGCCCTTTTTTTAGGA ACTCTGTACAAAAATCCCTTTGAAAAATATAAATTTTGGAAATGAGTGATGA

WI-7499a	33	A G ---			CAATTCTCAATCCAAACCTAGTCTGNTGCCTAA[G]CCATTCCAGACAAACCTCCACTTCGAAGGTTTAAATGCATAAGTCAGATAGCAATCCTTCAGTTGCCCCAGAGGCACATCACGTTCTTTGAATGCTTCATTATAGTCTCTTCATTTAGCAATCAGTAGGCAATACACTGGCATCATGATCCCTTTTTTTAGGAACTCTGTGTACAAAATCCCTTTGAAAATATAAAATTTTGGAAATGAGTGATGA
WI-7506b	118	A C ---			TGGGAATAGTAAGAGAAAGATGGGAAAGGTGACCAAAACAATATAGAGGCAGAGGCCAAAGTGAATGCATCCCAGCAGCAGACCACTTNAAGTAGTCTGGTGCTGATTGCCCTAGC[AC]GGAGAGTTGAGTGCCACAGGTAAGAAATGAGTGAAGAGGAAAAAATCATGATGTCATGTCAGTAATTACTATGTCAGAAGAAAATATTTAAAATATTGGACCACCTCTTGTTCTACCATCCCTACCCACT
WI-7506	118	A C ---			TGGGAATAGTAAGAGAAAGATGGGAAAGGTGACCAAAACAATATAGAGGCAGAGGCCAAAGTGAATGCATCCCAGCAGCAGACCACTTNAAGTAGTCTGGTGCTGATTGCCCTAGC[AC]GGAGAGTTGAGTGCCACAGGTAAGAAATGAGTGAAGAGGAAAAAATCATGATGTCATGTCAGTAATTACTATGTCAGAAGAAAATATTTAAAATATTGGACCACCTCTTGTTCTACCATCCCTACCCACT
WI-7534b	143	C T ---			TGTGAATTCCTAGCTCTGGAAGGTGTTTATGCCCTTGCGGGTTCTTGATGTGTCGCAGTGTCAACCAAGAGTCAGAACTGTACACATCCCAAAATTTGGTGCCGTGGAACACATTCOCGGTGATAGAAATTCCTAAATTGTC[AC]GTGAAAATAGGTTAGAAATTTTCTTTAAATATGTTTCTTATTCGTGAAAAATTCGGAGAGTGTCTGCTAAAATGGATTGGTGTGATCTTTTGGTAGTTGTAATTT
WI-7534	135	T C ---			TGTGAATTCCTAGCTCTGGAAGGTGTTTATGCCCTTGCGGGTTCTTGATGTGTCGCAGTGTCAACCAAGAGTCAGAACTGTACACATCCCAAAATTTGGTGCCGTGGAACACATTCOCGGTGATAGAAATTCCTAAATTGTC[AC]GTGAAAATAGGTTAGAAATTTTCTTTAAATATGTTTCTTATTCGTGAAAAATTCGGAGAGTGTCTGCTAAAATGGATTGGTGTGATCTTTTGGTAGTTGTAATTT
WI-7543b	162	G A ---			GGGAAAGAATAAAAATTAGCTTGAGCAACCTGGCTAAGATAGAGGGGCTCTGGGAGACTTTGAAGACCAAGTCTGTTTGACGGGAAGCCCCACTTGAAGGAAGAAGTCTAAGAGTGAAGTAGGTGTGACTTGAACATAGATTGCATGCTTCCTCCTTTCCTTTG[AC]GGAAGACCAGCTTGCAGTGACAGCTTGAGTGGGTTCTCTGCAGCCCTCAGATTATTTTCCTCTGGCTCCTTGGATGTAGTCAGTTA
WI-7543	162	G A ---			GGGAAAGAATAAAAATTAGCTTGAGCAACCTGGCTAAGATAGAGGGGCTCTGGGAGACTTTGAAGACCAAGTCTGTTTGACGGGAAGCCCCACTTGAAGGAAGAAGTCTAAGAGTGAAGTAGGTGTGACTTGAACATAGATTGCATGCTTCCTCCTTTCCTTTG[AC]GGAAGACCAGCTTGCAGTGACAGCTTGAGTGGGTTCTCTGCAGCCCTCAGATTATTTTCCTCTGGCTCCTTGGATGTAGTCAGTTA
WI-7555c	60	T C ---			GGTGATCAAGATCTGTTCCACAGGGCTAATGCCACCATCTCCCTCAAAAATTTGTAGAGGTC[AC]CTAAAAAGAAAGTGGTATGTTGTGTGATGATCAGCACTAAGTCTGCATTCCTGTTAAAGCCACTTGGGTCATAAGAAGGGGAAGTAAAAAATGAAGTCTGACTAGAAAATCTATTGCAGAGGCCAAGTACATTTAGTATGGCATTGAGTTGATATAGTTTTCATTTGATGTCATTTTGAATTTTCAG

VI-7576b	168 A T ---	---	---	AATGATGATGATAATGATGATGACGACGACAACGATGATGCTTGTAACAAGAAAAACATAAGAGAGC CTTGGTTTCATCAGTGTAAATAATTTTGAAGGGCGGTACTAGTTCAGACACTTTTGAAGTTTGTGT TCTGTTTGTAAACTGGCATCTGACACAAAAA[A/T]GTTGAAGGCCCTATTCTACATTTACACCTAC TTTGTAGTGAGAGAGACAAGAACGCAANNNNNNNNNAAAGAAAAATAAAC
VI-7577q	77 T C ---	---	---	AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTGCTTTCCCTTAA AAATATGCA[T/C]CAAAATCGTCTCTCATTTCTCTGAGGGTTTAGTAAACAGTAGGAGTTAAT AAAGAAGTTCAATTTGGTTACACGTAGGAAGAAGAGAACGATCAAAAGTGAGATATGTTAACTAT TGTAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
VI-7577p	50 G C ---	---	---	AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTGCTTTCCCTTAA AAATATGCAATCAAAATCGTCTCTCATTTCTCTGAGGGTTTAGTAAACAGTAGGAGTTAATAA AGAAAGTTCAATTTGGTTTACAC[G/A]TAGGAAGAAGAGAACGATCAAAAGTGAGATATGTTAACT ATTGTAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
NI-7577o	157 G A ---	---	---	AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTGCTTTCCCTTAA TAAAAATATGCATCAAAATCGTCTCTCATTTCTCTGAGGGTTTAGTAAACAGTAGGAGTTAAT AAAGAAGTTCAATTTGGTTTACAC[G/A]TAGGAAGAAGAGAACGATCAAAAGTGAGATATGTTAACT ATTGTAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
NI-7577n	48 A G ---	---	---	AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTGCTTTCCCTTAA TAAAAATATGCATCAAAATCGTCTCTCATTTCTCTGAGGGTTTAGTAAACAGTAGGAGTTAAT AAAGAAGTTCAATTTGGTTTACACGTAGGAAGAAGAGAACGATCAAAAGTGAGATATGTTAACTAT TGTAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
WI-7577m	84 G A ---	---	---	AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTGCTTTCCCTTAA AAATATGCATCAAAATC[G/A]TCTCTCATTTCTCTGAGGGTTTAGTAAACAGTAGGAGTTAAT AAAGAAGTTCAATTTGGTTTACACGTAGGAAGAAGAGAACGATCAAAAGTGAGATATGTTAACTAT TGTAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
WI-7577l	93 T C ---	---	---	AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTGCTTTCCCTTAA AAATATGCATCAAAATCGTCTCTCATTTCTCTGAGGGTTTAGTAAACAGTAGGAGTTAAT AAAGAAGTTCAATTTGGTTTACACGTAGGAAGAAGAGAACGATCAAAAGTGAGATATGTTAACTAT TGTAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
WI-7577k	154 C A ---	---	---	AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTGCTTTCCCTTAA AAATATGCATCAAAATCGTCTCTCATTTCTCTGAGGGTTTAGTAAACAGTAGGAGTTAATAA AGAAAGTTCAATTTGGTTTACAC[G/A]JACGTAGGAAGAAGAGAACGATCAAAAGTGAGATATGTTAACT ATTGTAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC

VI-7577j	117	A G ---	---	AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTGCTTTCCTTTAA AAATATGCATCAAAATCGTCTCTATTCTCTGAGGGTTTAGTA[A/G]ACAGTAGGAGTTAAT AAAGAAGTTCAATTTGGTTACACGTAGGAAAGAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
VI-7577i	77	T C ---	---	AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTGCTTTCCTTTAA AAATATGCATCAAAATCGTCTCTATTCTCTGAGGGTTTAGTAACAGTAGGAGTTAAT AAAGAAGTTCAATTTGGTTACACGTAGGAAAGAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
NI-7577h	50	G C ---	---	AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTGCTTTCCTTTAA TAAAAATATGCATCAAAATCGTCTCTATTCTCTGAGGGTTTAGTAACAGTAGGAGTTAAT AAAGAAGTTCAATTTGGTTACACGTAGGAAAGAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
WI-7577g	157	G A ---	---	AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTGCTTTCCTTTAA AAATATGCATCAAAATCGTCTCTATTCTCTGAGGGTTTAGTAACAGTAGGAGTTAAT AGAAGTTCAATTTGGTTACAC[G/A]TAGGAAAGAGAGAGCATCAAAGTGGAGATATGTTAACT ATTGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
NI-7577f	48	A G ---	---	AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTGCTTTCCTTTAA TAAAAATATGCATCAAAATCGTCTCTATTCTCTGAGGGTTTAGTAACAGTAGGAGTTAAT AAAGAAGTTCAATTTGGTTACACGTAGGAAAGAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
WI-7577e	84	G A ---	---	AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTGCTTTCCTTTAA AAATATGCATCAAAATC[G/A]TCTCTCTATTCTCTGAGGGTTTAGTAACAGTAGGAGTTAAT AAAGAAGTTCAATTTGGTTACACGTAGGAAAGAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
WI-7577d	93	T C ---	---	AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTGCTTTCCTTTAA AAATATGCATCAAAATCGTCTCTATTCTCTGAGGGTTTAGTAACAGTAGGAGTTAAT AAAGAAGTTCAATTTGGTTACACGTAGGAAAGAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
WI-7577c	154	C A ---	---	AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTGCTTTCCTTTAA AAATATGCATCAAAATCGTCTCTATTCTCTGAGGGTTTAGTAACAGTAGGAGTTAAT AGAAGTTCAATTTGGTTA[C/A]ACGTAGGAAAGAGAGAGCATCAAAGTGGAGATATGTTAACT ATTGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC

II-7577b	117 A G ---			AACCATGTTCCCTTCTTTAGCACCAAAATAATCAAAACCCCAACATAAGTGTTCCTTTTAA AAATATGCATCAAAATCGTCTCTGATTACTTTTCTGAGGGTTTTAGTA[A/G]ACAGTAGGAGTTAAT AAAGAAGTTCAATTTGGTTTACACGTAGGAAAGAGAGAGCATCAAAAGTGGAGATATGTTAACTAT TGATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
VI-7577	107 G A ---			AACCATGTTCCCTTCTTTAGCACCAAAATAATCAAAACCCCAACATAAGTGTTCCTTTTAA AAATATGCATCAAAATCGTCTCTGATTACTTTTCTGAG[G/A]GTTTTAGTAACAGTAGGAGTTAAT AAAGAAGTTCAATTTGGTTTACACGTAGGAAAGAGAGAGCATCAAAAGTGGAGATATGTTAACTAT TGATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
VI-7619q	106 C G ---			ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAGCACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTGCTGCTGGGGTGCTAATTAC ATGGCAGGAAGATGGGGCTCTAAGGGGAGTGTGGGTCTGCTCTCCCTTTTTCATCTTTTCCCT CTCTCGCTTCTTCTTACACAGAAACATACACATACCGAGAAACCTATTTC
NI-7619p	150 T C ---			ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAGCACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTGCTGCTGGGGTGCTAATTACATGG CAGGAAGATGGGGCT[C/G]CTAAGGGGAGTGTGGGTCTGCTCTCCCTTTTTCATCTTTTCCCTC TCTCGCTTCTTCTTACACAGAAACATACACATACCGAGAAACCTATTTC
VI-7619o	228 A G ---			ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAGCACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTGCTGCTGGGGTGCTAATTACATGG CAGGAAGATGGGGCTCTAAGGGGAGTGTGGGTCTGCTCTCCCTTTTTCATCTTTTCCCTCTCT CGCTTCTTCTTACACAGAAACAT[A/G]CACATACCGAGAAACCTATTTC
NI-7619n	237 G C ---			ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAGCACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTGCTGCTGGGGTGCTAATTACATGG CAGGAAGATGGGGCTCTAAGGGGAGTGTGGGTCTGCTCTCCCTTTTTCATCTTTTCCCTCTCT CGCTTCTTCTTACACAGAAACATACACATACCGAGAAACCTATTTC
NI-7619m	99 C T ---			ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAGCACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTGCTGCTGGGGTGCTAATTACAT TGGCAGGAAGATGGGGCTCTAAGGGGAGTGTGGGTCTGCTCTCCCTTTTTCATCTTTTCCCTC TCTCGCTTCTTCTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619l	189 T A ---			ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAGCACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTGCTGCTGGGGTGCTAATTACATGG CAGGAAGATGGGGCTCTAAGGGGAGTGTGGGTCTGCTCTCCCTTTTTCAT[A/G]CTTTTCCCTC TCTCGCTTCTTCTTACACAGAAACATACACATACCGAGAAACCTATTTC

WI-7619k	90	C G ---			ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAACGACAAAGAC AGAGAAGGGCCCAATGGGGTCATCC[C/G]CTCCCTAACGAGACTCTCTGTGCTGGGGTGCTAATTAC ATGGCAGGAAGAATGGGGCTCTAAGGGAGTGTTGGGCTGTCTCTCCCTTTTTCATCTTTTTCCT CTCTCGCTTTCTTTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619j	206	T G ---			ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAACGACAAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAATGGGGCTCTAAGGGAGTGTTGGGCTGTCTCTCCCTTTTTCATCTTTTTCCTCTCT CGC[T/G]TTCTTTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619i	106	C G ---			ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAACGACAAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTGTCTGTGCTGGGGTGCTAATTAC ATGGCAGGAAGAATGGGGCTCTAAGGGAGTGTTGGGCTGTCTCTCCCTTTTTCATCTTTTTCCT CTCTCGCTTTCTTTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619h	150	T C ---			ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAACGACAAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTGTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAATGGGGCTCTAAGGGAGTGTTGGGCTGTCTCTCCCTTTTTCATCTTTTTCCTCTC TCTCGCTTTCTTTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619g	228	A G ---			ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAACGACAAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTGTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAATGGGGCTCTAAGGGAGTGTTGGGCTGTCTCTCCCTTTTTCATCTTTTTCCTCTCT CGCTTTCTTTTACACAGAAACAT[A/G]CACATACCGAGAAACCTATTTC
WI-7619f	237	G C ---			ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAACGACAAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTGTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAATGGGGCTCTAAGGGAGTGTTGGGCTGTCTCTCCCTTTTTCATCTTTTTCCTCTCT CGCTTTCTTTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619e	99	C T ---			ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAACGACAAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTGTCTGTGCTGGGGTGCTAATTACAT TGGCAGGAAGAATGGGGCTCTAAGGGAGTGTTGGGCTGTCTCTCCCTTTTTCATCTTTTTCCTCTC TCTCGCTTTCTTTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619d	189	T A ---			ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAACGACAAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTGTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAATGGGGCTCTAAGGGAGTGTTGGGCTGTCTCTCCCTTTTTCATCTTTTTCCTCTC TCTCGCTTTCTTTTACACAGAAACATACACATACCGAGAAACCTATTTC

VI-7619c	90 C G ---			ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAACGACACAGAC AGAGAAAGGGGCAATGGGTCATCCGCTCCCTAACGAGACTCTGTGCTGGGGTGCTAATTAC ATGCGAGGAAGATGGGGCTCTAAGGGGAGTGGGGTCTGTCTCCCTTTTTCCTATTTTCCCT CTCTCGCTTTCTTTTACACAGAAACATACATACCGAGAAACCTATTTC
VI-7619b	208 T G ---			ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAACGACACAGAC AGAGAAAGGGGCAATGGGTCATCCCTCCCTAACGAGACTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAAATGGGGCTCTAAGGGGAGTGGGGTCTGTCTCCCTTTTTCCTATTTTTCCTCTCT CGCT/GTCTTTCTTACACAGAAACATACATACCGAGAAACCTATTTC
MI-7619	189 T A ---			ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAACGACACAGAC AGAGAAAGGGGCAATGGGTCATCCCTCCCTAACGAGACTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAAATGGGGCTCTAAGGGGAGTGGGGTCTGTCTCCCTTTTTCCTATTTTTCCTCTCT TCTCGCTTTCTTTTACACAGAAACATACATACCGAGAAACCTATTTC
MI-7626d	105 A G ---			CCCTTTGTATGTGGAGTATACCTGGCTTTTAAATATATGTATTTAAACAAACAAAGCAACAGTAA TCTATGTGTTTCTGTAAACAAATGGGATCTGTCTGGCAGJTAAACCACATCATGGACCAATGTG CCATACCTAATGATGAGCAATTTAGCACAAATTTGAGACTGAAATTTAGTACACTATGTTCTAGGTCAGT CTAACAGTTTGCCTGCTGTATTTATAGTAACCATTTTCTTTGGACTGTTC
MI-7626c	155 C T ---			CCCTTTGTATGTGGAGTATACCTGGCTTTTAAATATATGTATTTAAACAAACAAAGCAACAGTAA TCTATGTGTTTCTGTAAACAAATGGGATCTGTCTGGCATTAAACCACATCATGGACCAATGTGCCA TACTAATGATGAGCAATTTAGTCATTAACAAATTTGAGACTGAAATTTAGTACACTATGTTCTAGGTCAGT CTAACAGTTTGCCTGCTGTATTTATAGTAACCATTTTCTTTGGACTGTTC
MI-7626b	281 T A ---			CCCTTTGTATGTGGAGTATACCTGGCTTTTAAATATATGTATTTAAACAAACAAAGCAACAGTAA TCTATGTGTTTCTGTAAACAAATGGGATCTGTCTGGCATTAAACCACATCATGGACCAATGTGCCA TACTAATGAT/GTGGAGCAATTTAGCACAAATTTGAGACTGAAATTTAGTACACTATGTTCTAGGTCAGT CTAACAGTTTGCCTGCTGTATTTATAGTAACCATTTTCTTTGGACTGTTC
WI-7626	144 T C ---			TCCCATACCGCTGATTCAGGGTCTCTGCTGCGCCGCCAGATGGGGGAAAGCACAGGTGGGC TTCCAGTGGGTGCTGCCAGGGCCAGACCTTTCTAGGACGCCACCCAGCAAAAGGTGTTCTTAAAJA /GTAAGGGCAGAGTCACACTGGGGCAGCTGATACAAATTCAGACTGTGTAAAGAGAGAGCTTAAT GATAATATTGTGGTGGCACAAATAAATGGATTATTAGAATTCATATGAC
WI-7689c	134 A G ---			

WI-7689b	134 A G ---	---	TCCATAACCCGCTGATTCACAGGTCTCTGCTGGCGCCACCACCCAGATGGGGAAAGCACAGGTGGGC TTCCAGTGGCTGCTGCCAGGCCAGACCTTCTAGGACGCCACCCAGCAAAAGGTTGTTCTCTAAAJA /GITAAGGCGAGAGTCACACTGGGCGAGCTGATACAAAATTCAGACTGTGTAAAAAGAGAGCTTAAT GATAATATTGTGGTGCCACAAATAAAATGGATTTATTAGAATTCATATGAC
WI-7689	121 GA ---	---	TCCATAACCCGCTGATTCACAGGTCTCTGCTGGCGCCACCACCCAGATGGGGAAAGCACAGGTGGGC TTCCAGTGGCTGCTGCCAGGCCAGACCTTCTAGGACGCCACCCAGCAAAAGGTTGTTCTCTAA AATAAGGCGAGAGTCACACTGGGCGAGCTGATACAAAATTCAGACTGTGTAAAAAGAGAGCTTAAT GATAATATTGTGGTGCCACAAATAAAATGGATTTATTAGAATTCATATGAC
WI-7690	45 GA ---	---	TGGAGAACATTCATCTTCCGTCACATTCATCAATGAAGATTAG/AJCACTGAGATCCAGAGAGG CTGGATGACTTGCTCAAGTTCACAGCATGGTAGTGGCAAGAGAGGTCAGAGTCTCTGGCCCTTGAT GCCAGCTCAGTCCACAAAGCTCAGTAGGAGGATGTTCCAGTGGATGAGGGCCACCAGGAAGCAC AGGTCCAAGGCTGGTCCACACTTATCAGCAGCAACAACCTGCAGTTCAATCC
WI-7703b	164 TC ---	---	ACAGAAAAGTTGAATTTACATGGCTGGAGCTAGAATTTGATATGTGAACAGTTGTGTTGAAGCAC AGTGATCAAGTTATTTTAAATTTGGTTTTCACATTTGGAACAAGTCAGTCAATTCAGATATGATTCAAA TGCTATAAACCAAACTGATGAAGTAAATTC/JGGTCTCTCACTGTTTATTTAACCTCTAAATTCCT TTCAATTTAGGGTAGCATTTGTGTGAAGAGGTTTAAAGCTTCCATTGT
WI-7703	156 TC ---	---	ACAGAAAAGTTGAATTTACATGGCTGGAGCTAGAATTTGATATGTGAACAGTTGTGTTGAAGCAC AGTGATCAAGTTATTTTAAATTTGGTTTTCACATTTGGAACAAGTCAGTCAATTCAGATATGATTCAAA TGCTATAAACCAAACTGATGTC/JAAGTAAATGGTCTCTCACTGTTTATTTAACCTCTAAATTCCT TTCAATTTAGGGTAGCATTTGTGTGAAGAGGTTTAAAGCTTCCATTGT
WI-7743e	106 CA ---	---	TTAATGAGTGTGTTTGTACCCGTTGGGATTTGGGAAGACTGTGGCTGCTGGCAGTGGAGCCAAGG GTTACAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGAC/C/AJCCAGGAGTCCCTGGTAATAAGTACT GTGTACAGAAATTCGTACCTCACTGGGTCCTGGGCTCGGAGCCTCATCCGAGGCAGGGTCAGGA GAGGGCAGAACAGCCGCTCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCC
WI-7743d	275 CT ---	---	TTAATGAGTGTGTTTGTACCCGTTGGGATTTGGGAAGACTGTGGCTGCTGGCAGTGGAGCCAAGG GTTACAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGAC/C/AJCCAGGAGTCCCTGGTAATAAGTACTGTG TACAGAAATTCGTACCTCACTGGGTCCTGGGCTCGGAGCCTCATCCGAGGCAGGGTCAGGAGAG GGGCAGAACAGCCGCTCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCCAAG
WI-7743e	106 CA ---	---	TTAATGAGTGTGTTTGTACCCGTTGGGATTTGGGAAGACTGTGGCTGCTGGCAGTGGAGCCAAGG GTTACAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGAC/C/AJCCAGGAGTCCCTGGTAATAAGTACT GTGTACAGAAATTCGTACCTCACTGGGTCCTGGGCTCGGAGCCTCATCCGAGGCAGGGTCAGGA GAGGGCAGAACAGCCGCTCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCC

WI-7743d	275 C T ---		TTAAATGAGTGTGTTGTACCCGTTGGGGATTGGGAAGACTGTGGCTGCTGGCACTTGGAGCCAAAGG GTTACAGAGACTCAGGGCCCCAGCACTAAAGAGTGGACCCAGGAGTCCCTGGTAATAAGTACTGTG TACAGAACTTCTGTACCTCACTGGGTCTCTGGGCCCTCGAGCCTCATCCGAGGCAGGGTCAGGAGAG GGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCCAAACG
WI-7743e	106 C A ---		TTAAATGAGTGTGTTGTACCCGTTGGGGATTGGGAAGACTGTGGCTGCTGGCACTTGGAGCCAAAGG GTTACAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGAC[C/A]CCAGGAGTCCCTGGTAATAAGTACT GTGTACAGAACTTCTGTACCTCACTGGGTCTCTGGGCCCTCGAGCCTCATCCGAGGCAGGGTCAGGA GAGGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCC
WI-7743d	275 C T ---		TTAAATGAGTGTGTTGTACCCGTTGGGGATTGGGAAGACTGTGGCTGCTGGCACTTGGAGCCAAAGG GTTACAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGAC[C/A]CCAGGAGTCCCTGGTAATAAGTACTGTG TACAGAACTTCTGTACCTCACTGGGTCTCTGGGCCCTCGAGCCTCATCCGAGGCAGGGTCAGGAGAG GGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCCAAACG
WI-7743c	106 C A ---		TTAAATGAGTGTGTTGTACCCGTTGGGGATTGGGAAGACTGTGGCTGCTGGCACTTGGAGCCAAAGG GTTACAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGAC[C/A]CCAGGAGTCCCTGGTAATAAGTACT GTGTACAGAACTTCTGTACCTCACTGGGTCTCTGGGCCCTCGAGCCTCATCCGAGGCAGGGTCAGGA GAGGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCC
WI-7743b	275 C T ---		TTAAATGAGTGTGTTGTACCCGTTGGGGATTGGGAAGACTGTGGCTGCTGGCACTTGGAGCCAAAGG GTTACAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGAC[C/A]CCAGGAGTCCCTGGTAATAAGTACTGTG TACAGAACTTCTGTACCTCACTGGGTCTCTGGGCCCTCGAGCCTCATCCGAGGCAGGGTCAGGAGAG GGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCCAAACG
WI-7743	106 C A ---		TTAAATGAGTGTGTTGTACCCGTTGGGGATTGGGAAGACTGTGGCTGCTGGCACTTGGAGCCAAAGG GTTACAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGAC[C/A]CCAGGAGTCCCTGGTAATAAGTACT GTGTACAGAACTTCTGTACCTCACTGGGTCTCTGGGCCCTCGAGCCTCATCCGAGGCAGGGTCAGGA GAGGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCC
WI-7743	275 C T ---		TTAAATGAGTGTGTTGTACCCGTTGGGGATTGGGAAGACTGTGGCTGCTGGCACTTGGAGCCAAAGG GTTACAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGAC[C/A]CCAGGAGTCCCTGGTAATAAGTACT GTGTACAGAACTTCTGTACCTCACTGGGTCTCTGGGCCCTCGAGCCTCATCCGAGGCAGGGTCAGGA GAGGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCC
WI-7758	144 A G ---		TGACATTTATTCAAAGTTAAAGCAACACTTACAGAAATTATGAAGAGGTATCTGTTTAAACATTTCC TCAGTCAAGTTTCAGAGTCTTCAGAGACTTCGTAAATTAAGGAACAGAGTGAGAGACATCATCAAGTG GAGAGAAATC[A/G]TAGTTTAAACTGCATTATAAATTTTATAACAGAAATTAAGTAGATTTTAAAAA GATAAAATGTAAATTTTGTATTATTTTCCCATTTGGACTGTAACTGACTGCC

NI-7765b	126	G C ---	ACAGGGCCCTTTGGCAGGTGCAGCCCCCACTGCCCTTGACCTGCCCTCCCTCATGCGAAATCCCT TCATCTGGAACCATCAGAAACACCCCTCACACTGGGACTTGCAAAAAGGTGAGTATGG[G/C]TTAGG GAAACATTCCATCCTTGAGTCAAAAATCTCAATCTCCCTATCTTGCCACCCCTCATGCTGTGTG ACTCAACCAAAATCACTGAACCTTTGCTGAGCCTGTAAATAAAAGGTCGGA
NI-7773b	237	C G ---	TTAATTTACTGATTCAGCAAGACCAATCATTTGTATCAGATTATTTAAGTTTTATCCGTAGTTTT GATAAAGATTTCCTATTCCTTGTTCTGTGAGAACCTAAAGTGCTACTTTGCCATTAAGGCA GACTAGGGTTTCATGCTTTTACCCCTTNNNNNNNNNTGTAAAGTCTAGTTACCTACTTTTCTTT GATTTGACGTTTGACTAGCCATCTCAAGCAAC[G/TTTCGACGTTTGA
NI-7774b	170	T C ---	TGCAACCTCTTTTCGTGATGGCAGCCTGCTGGTCAGCACTCCAGTAGCGAGACGGCACCCAGAAT CAGATCCAGCTTCGGCATTTGATCAGACCAACAGTGTCTTCCCGGGGAGGAAACACTTTTAA TTACCCCTTTTGACGGCACCCCTTTAATCTGTTT[C/JATACCTTGCTTATAATGAGCGACTTAA ATGATTGAAAATAATGCTGCTCTTAGTAGCAAGTAAATGTGCTTGCT
WI-7785c	165	G ---	GCAGAGACCTTCCAAGGACATATTGCAGGATCTGTAATAGTGAACATATGAAAAGTATTAGAAATA TTTATTGCTGTAAATACTGTAATGCAATTGGAATAAACTGTCTCCCCCATTTGCTCTATGAAACTGC ACATTGGTCATTGTGAATANNNNNNNNNGCCAAAGGCTAATCCAAATTATTATCACAATTTACCA TAATTTATTTTGCCATTGATGATTTATTTTGTAAATGTAATCTTGGTGTGC
WI-7785b	165	G ---	GCAGAGACCTTCCAAGGACATATTGCAGGATCTGTAATAGTGAACATATGAAAAGTATTAGAAATA TTTATTGCTGTAAATACTGTAATGCAATTGGAATAAACTGTCTCCCCCATTTGCTCTATGAAACTGC ACATTGGTCATTGTGAATANNNNNNNNNGCCAAAGGCTAATCCAAATTATTATCACAATTTACCA TAATTTATTTTGCCATTGATGATTTATTTTGTAAATGTAATCTTGGTGTGC
II-7785	156	- T ---	GCAGAGACCTTCCAAGGACATATTGCAGGATCTGTAATAGTGAACATATGAAAAGTATTAGAAATA TTTATTGCTGTAAATACTGTAATGCAATTGGAATAAACTGTCTCCCCCATTTGCTCTATGAAACTGC ACATTGGTCATTGTGAATANN /TJNNNNNNNGCCAAAGGCTAATCCAAATTATTATCACAATTTACCATAATTTATTTGTCCATTGA TGTAATTTATTTGTAAATGTAATCTTGGTG
II-7789c	84	G A ---	TCTCCCCCTCATCCAACCTCGAAAGTCTGAATCTCCCAAGGAGGCGACCACCTTTACAGAGACTCTCC TGACGGTGGAATTTAA[G/A]TTTAGGGTCCCTAAAGCATTTGACACACAGTTGTTGAATGACTGAC CCAAATGTGAATGAAGCTAATGTGAATGTGAGTGAAGTCCCTTCAGGCCCGCTGCCCTAGGATAT GCCCTCCTGGTACTCGGGGCTGTCTCAGACGACTAGCCAGGACCCATCT
-7789b	84	G A ---	TCTCCCCCTCATCCAACCTCGAAAGTCTGAATCTCCCAAGGAGGCGACCACCTTTACAGAGACTCTCC TGACGGTGGAATTTAA[G/A]TTTAGGGTCCCTAAAGCATTTGACACACAGTTGTTGAATGACTGAC CCAAATGTGAATGAAGCTAATGTGAATGTGAGTGAAGTCCCTTCAGGCCCGCTGCCCTAGGATAT GCCCTCCTGGTACTCGGGGCTGTCTCAGACGACTAGCCAGGACCCATCT

II-7789	73 GA ---			TCTCCCTCATCCAACTCCGAAAGTCTGAATCTCCCAAGGAGGCCACCATCTTACAGAGACTCTCCC TGACG[G/A]JGGAAATTTAAGTTTAGGGTCCCTAAAGCAATTTGACACACAGTTGTTGAATGACTGAC CCAAAATGTGAATGAAGCTAATGTGAATGTGAGTGAAGCTCCCTTCAGGCCGCTGCCCTAGGATAT GCCCTCTGGTGACTCGGGGCTGTCTCAGACGACTAGCCAGGACCCATCT
II-7790b	190 CT ---			AATTGTCAGTCACCTTCTTCAAAACCTTACAGTCTTCTCCTAAGGTTACTCTTCATGAGATTCATCCATT TACTAATACTGTATTTTGGTGGACTAGGCTTGCCCTATGTGCTTATGTGAGCTTTTACTTTTATGG TGTGATTAATGGTGATCAAGGTAGGAAAGTTGTGTTCTATTTCTTGAACCTC[G/T]TCTATACTTT AAGATACTCTATTTTAAACACTATCTGCAAACTCAGGACACTTTAAG
II-7790	190 CT ---			AATTGTCAGTCACCTTCTTCAAAACCTTACAGTCTTCTCCTAAGGTTACTCTTCATGAGATTCATCCATT TACTAATACTGTATTTTGGTGGACTAGGCTTGCCCTATGTGCTTATGTGAGCTTTTACTTTTATGG TGTGATTAATGGTGATCAAGGTAGGAAAGTTGTGTTCTATTTCTTGAACCTC[G/T]TCTATACTTT AAGATACTCTATTTTAAACACTATCTGCAAACTCAGGACACTTTAAG
II-7795b	81 CA ---			CAGATGTTCTGGTAACTGATTGCTGGCAACAACAGATCTCTGGCTCATATTTCTTTCTCAT CTTGATGATGAT[C/A]GTGTCATCATCAAGAAATTTAATGATTAATAAGCATGCCCTTCTCTCTCT TAATAAGCCACATATAAATGTACTTTTCTCCAGAAATCTCCTTGAGGAAAAATGTCCAAA TAAGATGAATCACTTAATACCGTATCTTCTAAATTTGAAATATAATCTG
I-7795	81 CA ---			CTTGATGATGAT[C/A]GTGTCATCATCAAGAAATTTAATGATTAATAAGCATGCCCTTCTCTCTCAT TAATAAGCCACATATAAATGTACTTTTCTCCAGAAATCTCCTTGAGGAAAAATGTCCAAA TAAGATGAATCACTTAATACCGTATCTTCTAAATTTGAAATATAATCTG
7814c	41 GA ---			TTCTCTCATTTTATCCCTCACCTGTAGCATGCCAGTCCC[G/A]JTTCATTTAGTCATGTGACCACTC TGCTTGTTGTTTCCACAGCTGCAAGTTCAGTCCAGGATGCTAACATCTAAAAATAGACTTAAATCTC ATTGCTTACAAGCCTAAGAACTTTAGAGAAGTATACATAAGTTAGGATAAAATAATGGGATTTTC TTTCTTTTCTCTGGTAATTTGACTTGATATTTTAAAGAAATAACAGAA
7814b	41 GA ---			TTCTCTCATTTTATCCCTCACCTGTAGCATGCCAGTCCC[G/A]JTTCATTTAGTCATGTGACCACTC TGCTTGTTGTTTCCACAGCTGCAAGTTCAGTCCAGGATGCTAACATCTAAAAATAGACTTAAATCTC ATTGCTTACAAGCCTAAGAACTTTAGAGAAGTATACATAAGTTAGGATAAAATAATGGGATTTTC TTTCTTTTCTCTGGTAATTTGACTTGATATTTTAAAGAAATAACAGAA
314	28 GA ---			TGCTTGTTGTTTCCACAGCTGCAAGTTCAGTCCAGGATGCTAACATCTAAAAATAGACTTAAATCTC ATTGCTTACAAGCCTAAGAACTTTAGAGAAGTATACATAAGTTAGGATAAAATAATGGGATTTTC TTTTCTTTCTCTGGTAATTTGACTTGATATTTTAAAGAAATAACAGAA

WI-7830d	150	CT ---	GCAGGAAATAGTCACTCATCCACTCCACATAAGGGGTTAGTAAGAGAAGTCTGTCTGTCTGATGA TGGATAGGGGGCAAAATCTTTTCCCTTTCTGTTAATAGTCATCACATTTCTATGCCAAACAGGAACG ATCCATAACTTTAGT[C/T]TAAATGTACACATTCGATTTTGATAAAATTAATTTGTGTTCCCTTG AGGTGATCGTTGTTGTTGCTGCACITTTACTTTTTGCGGTGGGA
WI-7830c	54	GA ---	GCAGGAAATAGTCACTCATCCACTCCACATAAGGGGTTAGTAAGAGAAGTCTGTCTGTCTGA TGATGGATAGGGGGCAAAATCTTTTCCCTTTCTGTTAATAGTCATCACATTTCTATGCCAAACAGGA ACGATCCATAACTTTAGTCTTAATGTACACATTCGATTTTGATAAAATTAATTTGTGTTCCCTTG AGGTGATCGTTGTTGTTGCTGCACITTTACTTTTTGCGGTGGGA
WI-7830b	134	GA ---	GCAGGAAATAGTCACTCATCCACTCCACATAAGGGGTTAGTAAGAGAAGTCTGTCTGTCTGATGA TGGATAGGGGGCAAAATCTTTTCCCTTTCTGTTAATAGTCATCACATTTCTATGCCAAACAGGAAC G/AJATCCATAACTTTAGTCTTAATGTACACATTCGATTTTGATAAAATTAATTTGTGTTCCCTTG AGGTGATCGTTGTTGTTGCTGCACITTTACTTTTTGCGGTGGGA
WI-7830	44	A G ---	GCAGGAAATAGTCACTCATCCACTCCACATAAGGGGTTAGTAAGAGAAGTCTGTCTGTCTGATGA TGATGGATAGGGGGCAAAATCTTTTCCCTTTCTGTTAATAGTCATCACATTTCTATGCCAAACAGGA ACGATCCATAACTTTAGTCTTAATGTACACATTCGATTTTGATAAAATTAATTTGTGTTCCCTTG AGGTGATCGTTGTTGTTGCTGCACITTTACTTTTTGCGGTGGGA
WI-7865e	25	CT ---	GCAGGAAATAGTCACTCATCCACTCCACATAAGGGGTTAGTAAGAGAAGTCTGTCTGTCTGATGA TGATGGATAGGGGGCAAAATCTTTTCCCTTTCTGTTAATAGTCATCACATTTCTATGCCAAACAGGA ACGATCCATAACTTTAGTCTTAATGTACACATTCGATTTTGATAAAATTAATTTGTGTTCCCTTG AGGTGATCGTTGTTGTTGCTGCACITTTACTTTTTGCGGTGGGA
WI-7865d	191	CT ---	GCAGGAAATAGTCACTCATCCACTCCACATAAGGGGTTAGTAAGAGAAGTCTGTCTGTCTGATGA TGATGGATAGGGGGCAAAATCTTTTCCCTTTCTGTTAATAGTCATCACATTTCTATGCCAAACAGGA ACGATCCATAACTTTAGTCTTAATGTACACATTCGATTTTGATAAAATTAATTTGTGTTCCCTTG AGGTGATCGTTGTTGTTGCTGCACITTTACTTTTTGCGGTGGGA
WI-7865c	25	CT ---	GCAGGAAATAGTCACTCATCCACTCCACATAAGGGGTTAGTAAGAGAAGTCTGTCTGTCTGATGA TGATGGATAGGGGGCAAAATCTTTTCCCTTTCTGTTAATAGTCATCACATTTCTATGCCAAACAGGA ACGATCCATAACTTTAGTCTTAATGTACACATTCGATTTTGATAAAATTAATTTGTGTTCCCTTG AGGTGATCGTTGTTGTTGCTGCACITTTACTTTTTGCGGTGGGA
WI-7865b	191	CT ---	GCAGGAAATAGTCACTCATCCACTCCACATAAGGGGTTAGTAAGAGAAGTCTGTCTGTCTGATGA TGATGGATAGGGGGCAAAATCTTTTCCCTTTCTGTTAATAGTCATCACATTTCTATGCCAAACAGGA ACGATCCATAACTTTAGTCTTAATGTACACATTCGATTTTGATAAAATTAATTTGTGTTCCCTTG AGGTGATCGTTGTTGTTGCTGCACITTTACTTTTTGCGGTGGGA

NI-7865	25 C T ---			CCACTTCCTATCTGATTTTCCAG[C/TAATGAGGAGGCAATCTAGTCTCCACAAAACATCTA GCCATCTAAATGGAGAGATGAATCATCTACCTATACAAACAGCTAGCTATTAGAGGGTGGTGG GGTATGCTACTCATAAGATTTCAGGGTGCTTCCAACTGAAATCTCAATGTCTCAGTACGAAAAAC CTGAATCACATGCCTATGTAAAGGAAAGTGCTATTACCCAGTAAACCCAAA
NI-7865	191 C T ---			CCACTTCCTATCTGATTTTCCAGCAATGAGGAGGCAATCTAGTCTCCACAAAACATCTAGCC ATCTAAATGGAGAGATGAATCATCTACCTATACAAACAGCTAGCTATTAGAGGGTGGTGGGT ATGCTACTCATAAGATTTCAGGGTGCTTCCAACTGAAATCTCAATGTCTCAGTAC/CTGAAAAAC CTGAATCACATGCCTATGTAAAGGAAAGTGCTATTACCCAGTAAACCCAAA
WI-7867c	92 A C ---			TTCAACACCTGTCTTCCACCCTCCACCATCTGTGCAATCACTTCACCCCTCAGCCTCAGTCCCO CTAACAAATACCCCTGTCAAGAGG[C/AGTGTCAGCTCAGGTGGATTTAATGTGGGTTAATATGGC CTGTTGAGTTAATGTTAATGTTGATTTTCTTTAAGTAACCAATTTCTGTCTTGCTATAAATCTATGT CTATATGCTATGCTTAATTTGGATGATGAAGGCAACTTGGATTTAAGG
WI-7867b	92 A C ---			TTCAACACCTGTCTTCCACCCTCCACCATCTGTGCAATCACTTCACCCCTCAGCCTCAGTCCCO CTAACAAATACCCCTGTCAAGAGG[C/AGTGTCAGCTCAGGTGGATTTAATGTGGGTTAATATGGC CTGTTGAGTTAATGTTAATGTTGATTTTCTTTAAGTAACCAATTTCTGTCTTGCTATAAATCTATGT CTATATGCTATGCTTAATTTGGATGATGAAGGCAACTTGGATTTAAGG
WI-7868c	173 C T ---			TTGATCGATCTTTCCACCCTGTCACTCAACGTGGTCCCTAGAACAGAGGCTTAAACCGGCTTT CACCCAACTGCTCCCTCTGATCCTCCATCAGGGCCAGATCTCCACGTCTCCATCTCAGTACACAAT CATTTAATATTCCTGTCTTACCCCTATTCAAGCA[C/TTAGAGGCCAGAAAAATGGGCAAAATTAT CACTAACAGGCTTTTGACTCAGGTTCCAGTAGTTCATTCTAATGCCTAGAT
WI-7868b	173 C T ---			TTGATCGATCTTTCCACCCTGTCACTCAACGTGGTCCCTAGAACAGAGGCTTAAACCGGCTTT CACCCAACTGCTCCCTCTGATCCTCCATCAGGGCCAGATCTCCACGTCTCCATCTCAGTACACAAT CATTTAATATTCCTGTCTTACCCCTATTCAAGCA[C/TTAGAGGCCAGAAAAATGGGCAAAATTAT CACTAACAGGCTTTTGACTCAGGTTCCAGTAGTTCATTCTAATGCCTAGAT
WI-7868	66 T C ---			TTGATCGATCTTTCCACCCTGTCACTCAACGTGGTCCCTAGAACAGAGGCTTAAACCGGCTTT /CTCACCCAACTGCTCCCTCTGATCCTCCATCAGGGCCAGATCTCCACGTCTCCATCTCAGTACAC AATCATTTAATATTCCTGTCTTACCCCTATTCAAGCACTAGAGGCCAGAAAAATGGGCAAAATTAT CACTAACAGGCTTTTGACTCAGGTTCCAGTAGTTCATTCTAATGCCTAGAT
WI-7870b	85 T C ---			ATCTTTGCTCCCTGCAAGAAATCAGCCATAAGAAAGCACTATTAATACTCTGCAGTGATTAGAAGGG GTGGGGTGGCGGGAATCCT[C/JATTTATCAGACTCTGTAATTGAATATAAATGTTTACTCAGAGGA GCTGCAAAATGCTGCAAAAATGAAATCCAATGAGCACTAGATAATTTAAACATCATTTACTGCCAT CTTTATCATGAAGCACATCAATTACAAGCTGTAGACCACCTAATATCAATTTG

WI-7870	76 C T ---	---	ATCTTTGCTCCCTGCAAGAAATCAGCCATAAGAAAGCACACTATTAATACTCTGCAGTGATTAGAAGGG GTGGGGTGG[C/T]GGGAATCCTATTTATCAGACTCTGTAATTGAATATAAATGTTTTACTCAGAGGAG CTGCAAAATTGCCGTGCAAAAATGAAATCCAATGAGCACTAGAAATATTTAAACATCATTAAGTCCCATC TTTATCATGAAGCACATCAATTACAAGCTGTAGACCACCTAATATCAATTTG
WI-7889c	54 C ---	---	TTAGGTCTCATGCCCACTCCCCAGGAGCAGCTGGCACTGACAGCCTGGGGGGGGCGCTCTCCCCCTG CAGCCGTGCAGGACTCTAGCTCATGAGTGGAAAGTCACTACAGGACTGGCCGGGGCCAGGGCCTCT GGCTTCCCTGCCCAATCCTCCCTGGAGAAGGGACATGGGAATGAATTTGAATGGGCGCTGGACACC TACAGCAGCAGCATGTCCTCCCAAGGCTGCTTCTCCAGAGCACAAAG
NI-7889b	54 C ---	---	TTAGGTCTCATGCCCACTCCCCAGGAGCAGCTGGCACTGACAGCCTGGGGGGGGCGCTCTCCCCCTG CAGCCGTGCAGGACTCTAGCTCATGAGTGGAAAGTCACTACAGGACTGGCCGGGGCCAGGGCCTCT GGCTTCCCTGCCCAATCCTCCCTGGAGAAGGGACATGGGAATGAATTTGAATGGGCGCTGGACACC TACAGCAGCAGCATGTCCTCCCAAGGCTGCTTCTCCAGAGCACAAAG
WI-7894c	142 A G ---	---	AGCCACCCCCAAATATAACTGTTATCCAGAGCTGTTATGTCCTGTTTCCATACATGTTTTGTACT TTTACTATATCTACATACATCAATTAACCTTATGTCCTATTGTTTGTGAATTTATATTTGCGTATAC ATTATC[A/G]TATGTAAAAATTTGCAATTTTTTATTGAAAAATTTATGTTTCTTGAGATTTATCCACATTG AAACATGGAGCTCTAAATCGTTAATTTAACCGCTATAGAGTATCCATA
NI-7894b	142 A G ---	---	AGCCACCCCCAAATATAACTGTTATCCAGAGCTGTTATGTCCTGTTTCCATACATGTTTTGTACT TTTACTATATCTACATACATCAATTAACCTTATGTCCTATTGTTTGTGAATTTATATTTGCGTATAC ATTATC[A/G]TATGTAAAAATTTGCAATTTTTTATTGAAAAATTTATGTTTCTTGAGATTTATCCACATTG AAACATGGAGCTCTAAATCGTTAATTTAACCGCTATAGAGTATCCATA
NI-7900e	84 C T ---	---	GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATG[C/T]CCTGCCATTGAACACAGTGATTAAAGTTTGATCAAGCCATGGTGACACA AAATGCAATTGATCATGAATAGGAGCCCATGCTAGAAGTACATCTCTCAGATTTGAACCCAGTGAAA TATGATGTAATTTCTGAGCTAAACTCAACTATAGAAGACATTTAAAGAAATC
WI-7900d	128 C T ---	---	GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATG[C/T]CCTGCCATTGAACACAGTGATTAAAGTTTGATCAAGCCATGGTGACACA AAATGCAATTGATCATGAATAGGAGCCCATGCTAGAAGTACATCTCTCAGATTTGAACCCAGTGAAA TATGATGTAATTTCTGAGCTAAACTCAACTATAGAAGACATTTAAAGAAATC
WI-7900e	84 C T ---	---	GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATG[C/T]CCTGCCATTGAACACAGTGATTAAAGTTTGATCAAGCCATGGTGACACA AAATGCAATTGATCATGAATAGGAGCCCATGCTAGAAGTACATCTCTCAGATTTGAACCCAGTGAAA TATGATGTAATTTCTGAGCTAAACTCAACTATAGAAGACATTTAAAGAAATC

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WI-7900d	128 C T ---			GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATGCCCTGCCATTGAACAGTGATTAAAGTTTGATCAAGCCATGGTGA[C/T]ACA AAATGCAATTGATCATGAATAGAGGCCCATGCTAGAAGTACATTCTCTCAGATTGAAACCAGTGAAA TATGATGTAATTTCTGAGCTAAACCTCAACTATAGAAGACATTAAAAGAAATC
WI-7900e	84 C T ---			GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATGCCCTGCCATTGAACAGTGATTAAAGTTTGATCAAGCCATGGTGA[C/T]ACA AAATGCAATTGATCATGAATAGAGGCCCATGCTAGAAGTACATTCTCTCAGATTGAAACCAGTGAAA TATGATGTAATTTCTGAGCTAAACCTCAACTATAGAAGACATTAAAAGAAATC
WI-7900d	128 C T ---			GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATGCCCTGCCATTGAACAGTGATTAAAGTTTGATCAAGCCATGGTGA[C/T]ACA AAATGCAATTGATCATGAATAGAGGCCCATGCTAGAAGTACATTCTCTCAGATTGAAACCAGTGAAA TATGATGTAATTTCTGAGCTAAACCTCAACTATAGAAGACATTAAAAGAAATC
WI-7900c	84 C T ---			GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATGCCCTGCCATTGAACAGTGATTAAAGTTTGATCAAGCCATGGTGA[C/T]ACA AAATGCAATTGATCATGAATAGAGGCCCATGCTAGAAGTACATTCTCTCAGATTGAAACCAGTGAAA TATGATGTAATTTCTGAGCTAAACCTCAACTATAGAAGACATTAAAAGAAATC
WI-7900b	128 C T ---			GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATGCCCTGCCATTGAACAGTGATTAAAGTTTGATCAAGCCATGGTGA[C/T]ACA AAATGCAATTGATCATGAATAGAGGCCCATGCTAGAAGTACATTCTCTCAGATTGAAACCAGTGAAA TATGATGTAATTTCTGAGCTAAACCTCAACTATAGAAGACATTAAAAGAAATC
WI-7900	84 C T ---			GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATGCCCTGCCATTGAACAGTGATTAAAGTTTGATCAAGCCATGGTGA[C/T]ACA AAATGCAATTGATCATGAATAGAGGCCCATGCTAGAAGTACATTCTCTCAGATTGAAACCAGTGAAA TATGATGTAATTTCTGAGCTAAACCTCAACTATAGAAGACATTAAAAGAAATC
WI-7901c	33 C T ---			AGACTTAGGTACAAATTGCTCCCTTTTATATA[C/T]AGACACACACAGGACACATATATTAACAG ATTGTTTCATCATTCATCTATTTCCATATAGTCATCAAGAGACCATTATTAACACATGGTAAGAC CCTTTTAAACAACAACTCCAGGCCCTGGTTGGGGTGGCTGGTTATGGGGCAGCGCCGGTGGTCT CACTCAGTCGCTCTGCATGCTCTGTCATACAGACAGGTAACCTAGTTCT
WI-7901b	33 C T ---			AGACTTAGGTACAAATTGCTCCCTTTTATATA[C/T]AGACACACACAGGACACATATATTAACAG ATTGTTTCATCATTCATCTATTTCCATATAGTCATCAAGAGACCATTATTAACACATGGTAAGAC CCTTTTAAACAACAACTCCAGGCCCTGGTTGGGGTGGCTGGTTATGGGGCAGCGCCGGTGGTCT CACTCAGTCGCTCTGCATGCTCTGTCATACAGACAGGTAACCTAGTTCT

[illegible]

WI-8021b	57	C T	---	ACAATCTCAGAAGGACTGTGCAAGTCAATGAGTCGCTGTGAATCTCATCTGGAAA[C/T]GATCCC ACGTCCTTAGAACCTTCACCACAAGGAGTTTTCTTGTAGTGATCTCAAAGCTTGGTAGGCATTCGA ACTGGTCCCTTACATTTGAGATCTTTCTTTGCGCCTCTATCAAGTCAGCACACACCTTTTCCAAG GATTTACGTTGCGGCTTGTAGGGGATTCGAATTCGGTGAATTGCCA
WI-8021	57	C T	---	ACAATCTCAGAAGGACTGTGCAAGTCAATGAGTCGCTGTGAATCTCATCTGGAAA[C/T]GATCCC ACGTCCTTAGAACCTTCACCACAAGGAGTTTTCTTGTAGTGATCTCAAAGCTTGGTAGGCATTCGA ACTGGTCCCTTACATTTGAGATCTTTCTTTGCGCCTCTATCAAGTCAGCACACACCTTTTCCAAG GATTTACGTTGCGGCTTGTAGGGGATTCGAATTCGGTGAATTGCCA
WI-8024c	206	A G	---	CTGAAAATTTACTATGCTCTCCACAACAAGAGCTCCCATTTCCACAGACACAGTCAATGTCAGTCA GCTTGATTCAGGAGGACAGGCGAGGATCCAGTGGCCTCCCATGGGAAGACAGAAGAGAGT GGCCCCAGAGATGGAAGGACCCAGTGTATCACCACAACCATTTACGCCGCTCTAGCCTCTAA TTCCC[A/G]CTCTAGAACAGCTGGCCCTGGTCTGTCAGTACACAAGGAAAAGAGC
WI-8024b	206	A G	---	CTGAAAATTTACTATGCTCTCCACAACAAGAGCTCCCATTTCCACAGACACAGTCAATGTCAGTCA GCTTGATTCAGGAGGACAGGCGAGGATCCAGTGGCCTCCCATGGGAAGACAGAAGAGAGT GGCCCCAGAGATGGAAGGACCCAGTGTATCACCACAACCATTTACGCCGCTCTAGCCTCTAA TTCCC[A/G]CTCTAGAACAGCTGGCCCTGGTCTGTCAGTACACAAGGAAAAGAGC
WI-8077	167	A G	---	GAATGAGCCTTCCTAGCGCGAGGGACCTGCTGCTGTTGGCCTGCACATGCATCTATGGAATGC TTTTTGGCCAAAGCGGGGCACTGAGGACTAAGCTGTGANNNNNNNNATCTGCCCAAACCTCTTCT AAGGAGTCTGGGTGTATGCCCTACAAACC[A/G]TAAATTTCTCATCAGATGGATTTTATTAAACGTT GTGATTTGTGACTTACTTTCCAAATCTGACTCTGGCATAACAAGGGAAAAA
WI-8118f	114	G C	---	TCTAGGTTTAATCAAAGCAATTTGCANTTTGGATTTTGGAAATGACCACCTCCCTTGCTAAGGAAGCTAT GTACTTCATGCTGTGGAAACTGGCAAAATACAGAATGAGCTTGTGTT[G/C]TTTCTTAGCCTTGAAGA TGACCAGGTAGAGAGACAGAGTGAGACCAACAGTTTTTCTGATTTCCCTGCTCCTTATTCCTTCCCT AAAAATCAGACTCATTTGTGACCAGTAGTCTTGAGGACTCAAGCTGAATGA
WI-8118e	40	A G	---	TCTAGGTTTAATCAAAGCAATTTGCANTTTGGATTTTGGAAATGACCACCTCCCTTGCTAAGGAAGC TATGTACTTCATGCTGTGGAAACTGGCAAAATACAGAATGAGCTTGTGTTTCTTAGCCTTGAAGA TGACCAGGTAGAGAGACAGAGTGAGACCAACAGTTTTTCTGATTTCCCTGCTCCTTATTCCTTCCCT AAAAATCAGACTCATTTGTGACCAGTAGTCTTGAGGACTCAAGCTGAATGA
WI-8118d	118	T G	---	TCTAGGTTTAATCAAAGCAATTTGCANTTTGGATTTTGGAAATGACCACCTCCCTTGCTAAGGAAGCTAT GTACTTCATGCTGTGGAAACTGGCAAAATACAGAATGAGCTTGTGTTT[G/C]TTTCTTAGCCTTGAAGA TGACCAGGTAGAGAGACAGAGTGAGACCAACAGTTTTTCTGATTTCCCTGCTCCTTATTCCTTCCCT AAAAATCAGACTCATTTGTGACCAGTAGTCTTGAGGACTCAAGCTGAATGA

WI-8118c	44 C T ---	---	TCTAGGTTAATCAAAGCAATTTGCANTTTGGATTTTGGAAATGA[C/T]CACTCCCTTGCTAAGGAAGC TATGTACTTCAATGCTGTGGAACCTGGCAAATACAGAATGTAGCTTGTGTTTCTTAGCCCTTGAAGA TGACCAGGTAGAGACAGAGTGAGACCAACAGTTTTCTGATTTCCCTGCTCCTATTCCTTCTCT AAAAATCAGACTCATTGTGACCAGTAGCTTGAGGACTCAAGCTGAATGA
WI-8118b	88 T C ---	---	TCTAGGTTAATCAAAGCAATTTGCANTTTGGATTTTGGAAATGACCACCTCCCTTGCTAAGGAAGCTAT GTACTTCATGCTGTGGAAC[C/T]GGCAAATACAGAATGTAGCTTGTGTTTCTTAGCCCTTGAAGA TGACCAGGTAGAGACAGAGTGAGACCAACAGTTTTCTGATTTCCCTGCTCCTATTCCTTCTCT AAAAATCAGACTCATTGTGACCAGTAGCTTGAGGACTCAAGCTGAATGA
WI-8171d	299 C T ---	---	TTTTCTCTCCTCCGGGGACCAAGGTACCTTCTGGGGCATACAATGGCAGCGGCTCGGGAAG AGGGGTAGGAGGACCGAGCAGCATTCTCTGTAGAGGAAGACAGAAAGGAGACCCCTCTTGGCACACA TTTATGGAGGGTTGTCCTGAAGAGAAGGGCAGGTGGGGAGAGGTTCCCTGTACTTAAGAGAAGGC ACCAGTGGGCAAGAGCACAATGAAGAGGATGATGATAAAAACAATCACGGCA
WI-8171c	46 A G ---	---	TTTTCTCTCCTCCGGGGACCAAGGTACCTTCTGGGGCATACAAC[A/G]TGGCAGCAGGCGCTCGGG AAGAGGGGTAGGAGGACCGAGCAGCATTCTCTGTAGAGGAAGACAGAAAGGAGACCCCTCTTGGCAC ACATTTATGGAGGGTTGTCCTGAAGAGAAGGGCAGGTGGGGAGAGGTTCCCTGTACTTAAGAGAA GGCACCAGTGGGCAAGAGCACAATGAAGAGGATGATGATAAAAACAATCAC
WI-8171a	46 A G ---	---	TTTTCTCTCCTCCGGGGACCAAGGTACCTTCTGGGGCATACAAC[A/G]TGGCAGCAGGCGCTCGGG AAGAGGGGTAGGAGGACCGAGCAGCATTCTCTGTAGAGGAAGACAGAAAGGAGACCCCTCTTGGCAC ACATTTATGGAGGGTTGTCCTGAAGAGAAGGGCAGGTGGGGAGAGGTTCCCTGTACTTAAGAGAA GGCACCAGTGGGCAAGAGCACAATGAAGAGGATGATGATAAAAACAATCAC
WI-8171b	298 T C ---	---	TTTTCTCTCCTCCGGGGACCAAGGTACCTTCTGGGGCATACAACATGGCAGCGGCTCGGGAAG AGGGGTAGGAGGACCGAGCAGCATTCTCTGTAGAGGAAGACAGAAAGGAGACCCCTCTTGGCACACA TTTATGGAGGGTTGTCCTGAAGAGAAGGGCAGGTGGGGAGAGGTTCCCTGTACTTAAGAGAAGGC ACCAGTGGGCAAGAGCACAATGAAGAGGATGATGATAAAAACAATCACGGCA
WI-8314b	85 G C ---	---	GAGGGAAATGACATCTGGAGATCTAGGTATGTGGCCCATTTGCAATTGAGCACATTTCTTGGGTCTGT TTCTCTATCTTAAGGG[C/G]AGTCTCAAAACCCAGCTCAAAATACGACACTAACATGATGAACAT GCATGAGCTTTGAAAAGTCTCTGTAGCTTATGATGATCTAGAAGAGCAGTGTCCCAATAGAATTTTC TGTGATGATGAAAAGATTCTACTTCTGACCTATTCAATAGGGGTAACCACT
WI-8314	78 C G ---	---	GAGGGAAATGACATCTGGAGATCTAGGTATGTGGCCCATTTGCAATTGAGCACATTTCTTGGGTCTGT TTCTCTATCT[C/G]TAAGGGGAGTCTCAAAACCCAGCTCAAAATACGACACTAACATGATGAACAT GCATGAGCTTTGAAAAGTCTCTGTAGCTTATGATGATCTAGAAGAGCAGTGTCCCAATAGAATTTTC TGTGATGATGAAAAGATTCTACTTCTGACCTATTCAATAGGGGTAACCACT

WI-8321	178	G A ---	---	TTTTAAATATGCCCGTTTAGAGCAGACACAGTCACAATAAAGTTAAAAAGTTACAATGTGTCCAG TGATATACCCAGGNAATCCATTCTTGTAATTTCAAGAGCTGCTGTATACTGAGTCTCTGAGAAG TCCCCTTAGATAATAGCTGCCACTTTTCAGTATGGTTTCAGAAATG/AJAGTATCTTAGTATCTTCTA TTTGCTATGGTTCTAGTTATCAACCTACTTTATAGCTGAACGTGTTGGC
WI-8321	178	G A ---	---	TTTTAAATATGCCCGTTTAGAGCAGACACAGTCACAATAAAGTTAAAAAGTTACAATGTGTCCAG TGATATACCCAGGNAATCCATTCTTGTAATTTCAAGAGCTGCTGTATACTGAGTCTCTGAGAAG TCCCCTTAGATAATAGCTGCCACTTTTCAGTATGGTTTCAGAAATG/AJAGTATCTTAGTATCTTCTA TTTGCTATGGTTCTAGTTATCAACCTACTTTATAGCTGAACGTGTTGGC
WI-8332b	123	A C ---	---	TATGACTCACTTTCAGTTACCCCGTGCCTCCAGATCGCATGTTGCTCCACCTGGGGCGGATATA AATTACCTCTAGATTGTCCAAAGCCAGTCTTCCCTCCCTGTCAGCCTTAGA/AJCJACTAAGTAG CAGTACTGTTTGGTGTGTTGTTTCTTCCCAGCAATGCCACTGTCAGCTACTTAGTAACAACCTAG AGGTGGAGGGTNTCCGGGAAGCAGTTAGATGAGTTAAGTGTGATGCACA
WI-8332	114	A C ---	---	TATGACTCACTTTCAGTTACCCCGTGCCTCCAGATCGCATGTTGCTCCACCTGGGGCGGATATA AATTACCTCTAGATTGTCCAAAGCCAGTCTTCCCTCCCTGTCG/AJCJGCTTAGAACTAAGTAG CAGTACTGTTTGGTGTGTTGTTTCTTCCCAGCAATGCCACTGTCAGCTACTTAGTAACAACCTAG AGGTGGAGGGTNTCCGGGAAGCAGTTAGATGAGTTAAGTGTGATGCACA
WI-8378b	311	T C ---	---	TGCGGGCTTAACAGGAAGCATGACTGGAGGCCCTCAGGAAGCTTATAATCATGGCAGAAAGGCGAAGG GGAAGCAAGGACCTTCTTACATGGCAGCAGGAGGAGAAAGAGAAAGGAGAGTCTACACACTTTT AAACAACCCAGATCTCATGAGANTTCCATCGGGAGACAGCACTAGGGGGATGGCACTAAACCATTAGA AACTGCCCCCATGATCCAATCACCTNTCACCAGGCCCTCCTCCAACACGTTGGGG
WI-8378	308	T C ---	---	TGCGGGCTTAACAGGAAGCATGACTGGAGGCCCTCAGGAAGCTTATAATCATGGCAGAAAGGCGAAGG GGAAGCAAGGACCTTCTTACATGGCAGCAGGAGGAGAAAGAGAAAGGAGAGTCTACACACTTTT AAACAACCCAGATCTCATGAGANTTCCATCGGGAGACAGCACTAGGGGGATGGCACTAAACCATTAGA AACTGCCCCCATGATCCAATCACCTNTCACCAGGCCCTCCTCCAACACGTTGGGG
WI-8426	184	T G ---	---	TTTAGCACATATTTAGCATTAAGCCTCAAACGATACAGCAATATGTTACATTCTCTTGTGAAAAACAG TTGTTGTAGACTGTTAANNNNNNNAATGTAACCTCGACTTGTGCCTAATAGGATTTGACCNNTAA GAGNNTCTTTTGTCTGGGANGGGTGGCTTGTCTGAACCTCCATCTGTG/GJGCTTGTAGCTGGTG AGGCTGGAGTATGGANGNCCCGGGGCCCTTGGCNATNGNATTCAGTGAG
WI-8450h	61	C A ---	---	TTGAGCCTCCACAAATATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATACACTC/AJCA TCTTCTCTATCTTAGTCCCAAGTTTGTAGTTTCAATCCCAATATATACCAATTCATTTGTTATTTAAGA AAAAACCTTCCCAGTTATGTGAGAAACTATGATTTAGCTTACCCCTCCACTACCCAGCAAACTAC AGAGAGGATGGGAGTGTATATGAGCAGTACAGAGTCTTAATGCAATTCAAT

WI-8450g	55	T C	---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATTCACACTCCAT CTTCTCTATCTTAGTCCCAAGTTTGTAGTTTCAATCCCAATTATACCAATTCCATTGTTATTTTAAAG AAAAACCTTCCCAGTTATTGTCAGAAACTATGATTAGCTTACCCCTCCACTACCCAGCAAACTAC AGAGAGGATGGGAGTGTAATATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8450f	108	T A	---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATACACTCCATCTT CTCTATCTTAGTCCCAAGTTTGTAGTTTCAATCCCAATTATACCAATTCCATTGTTATTCATTAAAGA AAAAACCTTCCCAGTTATTGTCAGAAACTATGATTAGCTTACCCCTCCACTACCCAGCAAACTAC AGAGAGGATGGGAGTGTAATATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8450e	125	T C	---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATACACTCCATCTT CTCTATCTTAGTCCCAAGTTTGTAGTTTCAATCCCAATTATACCAATTCCATTGTTATTCATTAAAGA AAAAACCTTCCCAGTTATTGTCAGAAACTATGATTAGCTTACCCCTCCACTACCCAGCAAACTAC AGAGAGGATGGGAGTGTAATATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8450d	125	T C	---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATACACTCCATCTT CTCTATCTTAGTCCCAAGTTTGTAGTTTCAATCCCAATTATACCAATTCCATTGTTATTCATTAAAGA AAAAACCTTCCCAGTTATTGTCAGAAACTATGATTAGCTTACCCCTCCACTACCCAGCAAACTAC AGAGAGGATGGGAGTGTAATATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8450c	108	T A	---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATACACTCCATCTT CTCTATCTTAGTCCCAAGTTTGTAGTTTCAATCCCAATTATACCAATTCCATTGTTATTTTAAAGA AAAAACCTTCCCAGTTATTGTCAGAAACTATGATTAGCTTACCCCTCCACTACCCAGCAAACTAC AGAGAGGATGGGAGTGTAATATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8450b	61	C A	---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATACACTTCAC TCTTCTATCTTAGTCCCAAGTTTGTAGTTTCAATCCCAATTATACCAATTCCATTGTTATTTTAAAGA AAAAACCTTCCCAGTTATTGTCAGAAACTATGATTAGCTTACCCCTCCACTACCCAGCAAACTAC AGAGAGGATGGGAGTGTAATATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8450a	55	T C	---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATTCACACTCCAT CTTCTCTATCTTAGTCCCAAGTTTGTAGTTTCAATCCCAATTATACCAATTCCATTGTTATTTTAAAGA AAAAACCTTCCCAGTTATTGTCAGAAACTATGATTAGCTTACCCCTCCACTACCCAGCAAACTAC AGAGAGGATGGGAGTGTAATATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8458b	60	A G	---	---	CAAGGAAAGCTGTCAGTCTTCATAAACTTCAAGAGTTACAAAAATACGTATTTTAAAGJCTA CAATTCAAGATTAGCATCCAAACCTACAAACATGATGTACATTCGTACACACCACTACAACTTCAC ACCTGGCTACAGCAATGTTGACTTACATCACCATTGTTTATACCTTGTAAGAACTTTATTGTGCACAGT GACATCCATTCCGCCAGACTTAATGTTATAAAGCAGCTGAGCAGAGTTCTCA

WI-8461c	105 A T ---	---	---	CTTCTCCTCCAAAATCTACATGAATACCTTGAGACAAATATAACTACAACCTTACAAATGCCAATTA GACAAAGAGANTAAATGATATAATAATCAATTTT[A/T]NNNNNNNNCCCTTGCTTATTACAT TCAGGGAAGTCTAGCACCAGGACAGTNTTAACAACATTACAANTTTNTTAGAAAAGTTATTACTTA AAACATCTGTGTGACCTACATCAAAAGAAAANTCAAGGATTTGCAAAAAGGGGG
WI-8461b	38 T C ---	---	---	CTTCTCCTCCAAAATCTACATGAATACCTTGAGACAAAT[CT]ATAACTACAACCTTACAAATGCCAA TTAGACAAAGAGANTAAATGATATAATAATCAATTTTNNNNNNNNCCCTTGCTTATTACAT TCAGGGAAGTCTAGCACCAGGACAGTNTTAACAACATTACAANTTTNTTAGAAAAGTTATTACTTA AAACATCTGTGTGACCTACATCAAAAGAAAANTCAAGGATTTGCAAAAAGGGGG
WI-8461	38 T C ---	---	---	CTTCTCCTCCAAAATCTACATGAATACCTTGAGACAAAT[CT]ATAACTACAACCTTACAAATGCCAA TTAGACAAAGAGANTAAATGATATAATAATCAATTTTNNNNNNNNCCCTTGCTTATTACAT TCAGGGAAGTCTAGCACCAGGACAGTNTTAACAACATTACAANTTTNTTAGAAAAGTTATTACTTA AAACATCTGTGTGACCTACATCAAAAGAAAANTCAAGGATTTGCAAAAAGGGGG
WI-8461	105 A T ---	---	---	CTTCTCCTCCAAAATCTACATGAATACCTTGAGACAAATATAACTACAACCTTACAAATGCCAATTA GACAAAGAGANTAAATGATATAATAATCAATTTT[A/T]NNNNNNNNCCCTTGCTTATTACAT TCAGGGAAGTCTAGCACCAGGACAGTNTTAACAACATTACAANTTTNTTAGAAAAGTTATTACTTA AAACATCTGTGTGACCTACATCAAAAGAAAANTCAAGGATTTGCAAAAAGGGGG
WI-9438	77 A G ---	---	---	AATAACATGTTATGAACAAGCTGGTTACAAGTAGTAGGATGACTTAATTTTGATAAAAAAAT TAAAAGCAT[CT]GACATGCATATAAAAAATTAGATTATGTACAAAATACCAACAGTATTTACTTC TGCTCAGTAATTAAATATCTCCCTTTGTTTGTCTTTTAAAAACATTATTTCTGAAAAAATAA ATCAGAAAAACATGATCGTGGAGAAATTATTA
WI-9439b	101 C T ---	---	---	ACAGAAATTGACCTTTATTTGTTGTAATAAGCCTGTTTAACTTTTGATACAAAAGTAACATTTTAGTA CAGAAATCCCAGTCTGACGTCAGTACCTGTC[CT]GTCACACTGTACCATCTCAGTCCCACCTCT GCCTGTAACCTTAGAAAACAGCCCCCTACCCCCAGAGGGTCTGCGAGTTAATACCTTGAGAAATAGTCTA CAGTTTTTCATAGTTTGTCTGAGCTAGAAAACCTTGACCTGTAAAACAAAG
WI-9439a	76 C T ---	---	---	ACAGAAATTGACCTTTATTTGTTGTAATAAGCCTGTTTAACTTTTGATACAAAAGTAACATTTTAGTA CAGAAAAT[CT]CCAGTCTGTCAGTACCTGTCGTGTCACACTGTACCATCTCAGTCCCACCTCT GCCTGTAACCTTAGAAAACAGCCCCCTACCCCCAGAGGGTCTGCGAGTTAATACCTTGAGAAATAGTCTA CAGTTTTTCATAGTTTGTCTGAGCTAGAAAACCTTGACCTGTAAAACAAAG
WI-9446b	75 T C ---	---	---	GAAGGCTTGATTAAAGGAGGNTTATTTGATGTAACCTTACCATTCCATAGACTATAAAGANCATTA TAAAAAA[CT]CCTCTAAAGNACACATGCCCCAAATGACCANGNCATAGCAACACCTTTTAAAT TACTCATCTTTTCATATGTGTTTGTGTCCTACTNTTATCACTGTGCTCTGCTCTTTTGTCTACCTA TGNGAACTGCACACTATCTGTGGCAATATTGT

WI-9446	75 T C ---	---	GAAGGCTTGATTAGGGAGGNTTTATTGATGTNAACTTACCATTCATAGACTATAAAGANCATTA TAAAAAAATTC/CCTCTAAAGNGACACATGCCCAAATGACCANGNCATAAGCAAACCTTTTAAAT TACTCATCTTTCATATGTGTGTTGTCNCCCTACTNNTATCACTGTGCTCTCTGCTCTTTGTCTACCTA TGNGAACTGCACACTATCTGTGGCAATATGTG
WI-9497b	185 A ---	---	ATTAATAATGTCAAGGTTTCATGTTTACATTTTCTTATATCAAGTACAATGGTATATATCTTTTTT GAGATAATTATCTAGATTCCAGGCTTCTCTAGATGTAAGTNCCTAAAGCTTATAGTTTACATTGA TATCTAGACATATATCTTAAACAGTCTCCAAATTTNCTTTAATTAATCAAAAGTATGTTAATGTCACCTT GGAATTCACATGGAAAAGCCCAACAAAATAACTAAAACCTTGACTAATGAAG
WI-9497	185 A ---	---	ATTAATAATGTCAAGGTTTCATGTTTACATTTTCTTATATCAAGTACAATGGTATATATCTTTTTT GAGATAATTATCTAGATTCCAGGCTTCTCTAGATGTAAGTNCCTAAAGCTTATAGTTTACATTGA TATCTAGACATATATCTTAAACAGTCTCCAAATTTNCTTTAATTAATCAAAAGTATGTTAATGTCACCTT GGAATTCACATGGAAAAGCCCAACAAAATAACTAAAACCTTGACTAATGAAG
WI-9523b	193 C A ---	---	GTGAAAAAGTTTCTATTTCATTCATCCATCATAAGATTGTGCTAAGGATCATTTTGGAGAATGTG CAGCATTCAGAAGTTGTATCTCATCATGCGAGTCACTCAGCAGCATTTTATCTAAAAGTACGTGCACA GACTCAGACAAATTACAAACTATTTCAAGCCATGATCTATGGTGATTTTCCACACACATTGTA[C/A]AGTG AAAGCTCTTCAGCTTGGAAACAACCTTGTCAGGCAGACTGCATGCACATATAT
WI-9523a	47 G A ---	---	GTGAAAAAGTTTCTATTTCATTCATCCATCATAAGATTGTGCTAAG[G/A]ATCATTTTGGAGAAT GTGCAGCATTCAGAAGTTGTATCTCATCATGCGAGTCACTCAGCAGCATTTTATCTAAAAGTACGTGCA CAGACTCAGACAAATTACAAACTATTTCAAGCCATGATCTATGGTGATTTTCCACACACATTGACAGTGA AAGCTCTTCAGCTTGGAAACAACCTTGTCAGGCAGACTGCATGCACATATAT
WI-9554	202 T C ---	---	AAAAACACAAGTTTTCATACATCACAAAAACCTTCCATTATAACACACAGAAGTGATTATACCAGAC AAGCATCAGTGATGATAGTACTGCCCTTTCAGTTGTTATTGTACAATGCTGTAGATAATGCAGCCCCATG CAATACACCCCAAGAACACTAGAGTCTCTACACCCCAAGTACAATATGATAAAGCAGCCCTCTGCAAGTG GTTTCGCTGGATACCACTAAGAAAGTCTACTGCAGCCATGTTGGTTATGATTTT
WI-9555	97 G A ---	---	CCAAAAGCCAAACCATTCATATGTATGGATTTCATAAACATTTATTGATCCTTTTTTGAGGTAAGTAT AAATACCTTTTACATGGCTAACCTTCTAAC[G/A]CTTGAAAAATCAATTTCAAGGACTCTTTAATCA GTTAAATAATCTGCTTTAGAAGGCACAAATGATACATCTCAGATTAAAAATACAGGTAAGTATTCAG GGNTAAAATGGTACAAAAAGGCTGTAACTCTTTCATCTCAGATTGATCACA
WI-9625b	172 A T ---	---	TTGAACATTTAATGAATGACAAAGACATAACATCCTCTGAAAAATCTGCAAGTAAATCAATCATTTT TAAACAATAGTACCATATATTTGTATCTNCTCTCTGGGAAAAACCTTTGGAAAAACACACGCACA TAAGTATCATAACTGAGGGTTGTGGACAAGTTACTCT[TA/T]GTTTACCAATTTTATATTGACATAA AGTAGCACAGACTAGTTATTTCAITTTAAAAAACACACTGACAAATCTTTTC

WI-9625	172 A T ---			TTGAACATTTAATGAATGACAAAGACATAACATCCTCTGAAAAATCTGCAAGTAAATCAATCATTTT TAAACAATAGCTACCATATATTTGTATCTNCTCCTTGGGAAAAACTTGGAAAAAACAACACGCACA TAAGTATCATAAAGTGGGTTGGGACAAAGTTACTTCTATGTTTACCAATTTTATATTGACATAA AGTAGCACAGACTAGTTATTTTCATTTAAAAAACAACACACTGACAAATCTTTTC
WI-9647	144 C T ---			TTTTCTGAGATTCAAAGAGCTACATTTTGGTTAGTGTGCTACTATACCTTTTTTCATCCTTTCA ACATCTTTTGTACATTTTAGGTGATGCTCTGTAAACAGTGTATGCTAGACCTAAAAATCCAAGCT TACAACCTCTGTCTTTACCTGATACATTTATCCATTTACTTTCAATTTGGATTTTAAAAATGTTA ACTTAATACGCTCTTTACAGATGCCCTGCTTTTATGTTAATTTGTTT
WI-9676n	114 A G ---			GGCCACTGTCCAAAGTCTGTACAGTCTCCTCCATATGGCAAAGATGAAGAAAAATGGCAATCTTTTTA GGGTACCAAGNCTGAGTTGTACGGTCTTTATAAATGCAGAGCAAGATGTGGCTTTCTCTGCC CCCATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGGCATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAAATCCTATGCATTTGTTT
WI-9676m	184 G T ---			GGCCACTGTCCAAAGTCTGTACAGTCTCCTCCATATGGCAAAGATGAAGAAAAATGGCAATCTTTTTA GGGTACCAAGNCTGAGTTGTACGGTCTTTATAAATGCAGAGCAAGATGTGGCTTTCTCTGCC ATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCCTGTGCATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAAATCCTATGCATTTGTTT
WI-9676l	84 A C ---			GGCCACTGTCCAAAGTCTGTACAGTCTCCTCCATATGGCAAAGATGAAGAAAAATGGCAATCTTTTTA GGGTACCAAGNCTGAGTTGTACGGTCTTTATAAATGCAGAGCAAGATGTGGCTTTCTCTGCC CCCATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGGCATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAAATCCTATGCATTTGTTT
WI-9676k	202 C T ---			GGCCACTGTCCAAAGTCTGTACAGTCTCCTCCATATGGCAAAGATGAAGAAAAATGGCAATCTTTTTA GGGTACCAAGNCTGAGTTGTACGGTCTTTATAAATGCAGAGCAAGATGTGGCTTTCTCTGCC ATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGGCATGAAATAACTTGA C/TJGAGGGTCTCTCAGCTTTAAAGCCTTGGAAATCCTATGCATTTGTTT
WI-9676j	92 C T ---			GGCCACTGTCCAAAGTCTGTACAGTCTCCTCCATATGGCAAAGATGAAGAAAAATGGCAATCTTTTTA GGGTACCAAGNCTGAGTTGTGTC/TJGGTCTTTATAAATGCAGAGCAAGATGTGGCTTTCTCTGCC CCCATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGGCATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAAATCCTATGCATTTGTTT
WI-9676i	173 T C ---			GGCCACTGTCCAAAGTCTGTACAGTCTCCTCCATATGGCAAAGATGAAGAAAAATGGCAATCTTTTTA GGGTACCAAGNCTGAGTTGTACGGTCTTTATAAATGCAGAGCAAGATGTGGCTTTCTCTGCC ATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCTCCCTCTGTGGCATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAAATCCTATGCATTTGTTT

WI-9676h	134 C A ---	---	GGCCACTGTCCAAAGTCTGCACAGTCTCCCATATGGCAAAGATGAAGAAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAAATGCAGAGCAAGATGTGGCTTTCCCTGCCCCQ C/AJTTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAAATCTTG AGCCAGGGTCTCTCAGCTTTAAAGCCTTGAATCCTATGCATTGTTT
WI-9676g	202 C T ---	---	GGCCACTGTCCAAAGTCTGCACAGTCTCCCATATGGCAAAGATGAAGAAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAAATGCAGAGCAAGATGTGGCTTTCCCTGCCCC ATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAAATCTTGAGG C/TJAGGGTCTCTCAGCTTTAAAGCCTTGAATCCTATGCATTGTTT
WI-9676f	184 G T ---	---	GGCCACTGTCCAAAGTCTGCACAGTCTCCCATATGGCAAAGATGAAGAAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAAATGCAGAGCAAGATGTGGCTTTCCCTGCCCC ATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAAATCTTGGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGAATCCTATGCATTGTTT
WI-9676e	173 T C ---	---	GGCCACTGTCCAAAGTCTGCACAGTCTCCCATATGGCAAAGATGAAGAAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAAATGCAGAGCAAGATGTGGCTTTCCCTGCCCC ATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTT/CJCCCTCTGTGCGCATGAAATAAATCTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGAATCCTATGCATTGTTT
WI-9676d	134 C A ---	---	GGCCACTGTCCAAAGTCTGCACAGTCTCCCATATGGCAAAGATGAAGAAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAAATGCAGAGCAAGATGTGGCTTTCCCTGCCCCQ C/AJTTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAAATCTTG AGCCAGGGTCTCTCAGCTTTAAAGCCTTGAATCCTATGCATTGTTT
WI-9676c	114 A G ---	---	GGCCACTGTCCAAAGTCTGCACAGTCTCCCATATGGCAAAGATGAAGAAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAAATGCAGAGCAAGATGTGGCTTTCCCTGCCC CCCATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAAATCTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGAATCCTATGCATTGTTT
WI-9676b	92 C T ---	---	GGCCACTGTCCAAAGTCTGCACAGTCTCCCATATGGCAAAGATGAAGAAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAAATGCAGAGCAAGATGTGGCTTTCCCTGCCC CCCATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAAATCTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGAATCCTATGCATTGTTT
WI-9676a	84 A C ---	---	GGCCACTGTCCAAAGTCTGCACAGTCTCCCATATGGCAAAGATGAAGAAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAAATGCAGAGCAAGATGTGGCTTTCCCTGCCC CCCATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAAATCTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGAATCCTATGCATTGTTT

WI-9738b	40 C A ---	---	TGGACCAACACAGACAGATGTTCCCTGGTGCCTGTGTG[A]/A]ATTACAACCTCATTGATCACATGC AGCAACATCAACATCTCAAGGAGTCCATTGTTCAAAACACAGTAATGACTCCACATTTCCCTTT GAGTCAACAAAAGACTCTGCTGTCACTTGCCTGGAGCGGGTGGTTTTTCACTATGTGAGTATCTA TCTTTTATTCTGTCCCTTATGTTGGTGGCACATGCTGTATTGCTGTCC
WI-9738	40 C A ---	---	TGGACCAACACAGACAGATGTTCCCTGGTGCCTGTGTG[A]/A]ATTACAACCTCATTGATCACATGC AGCAACATCAACATCTCAAGGAGTCCATTGTTCAAAACACAGTAATGACTCCACATTTCCCTTT GAGTCAACAAAAGACTCTGCTGTCACTTGCCTGGAGCGGGTGGTTTTTCACTATGTGAGTATCTA TCTTTTATTCTGTCCCTTATGTTGGTGGCACATGCTGTATTGCTGTCC
WI-9756	47 A ---	---	ACTGAAATGTAATGGCCAGGCCACCCAGGACCTTAAATCATAGAAGTTAATCTGTGGGAAAA GAGTAACTACAAAAGCATCTAAACAAGAGCAGGATGTGATGTAATGTGCCCTTATCATTAGTC AGTAAAGATAAGAAAGCCCTGGTGAGTATCCACTTCCACAACACACAGAAATATACACTTTTGGAAAG ATTCCACTTAACCACTTGATTCTTCACTTTTTATGATTTAAACCTCCGTGG
WI-9758	135 A G ---	---	GATGGTCCCTTAAGGATTTGCATTGGTTAATGGGCAGACTGGTGCAAAAGAGGCTGAATTGAATAAT TAGGAACTGGGAGAAATCAATCAAGAAAGAAATCTTGTTCGCAAGGTCAATTTTATACATATTTA A/A]G]TAAATAACTCTGGTAGGTTCTATAGCAAAATGCTAAGTAAAGTAAACCGCTGGTTCTAAAT ATTACG
WI-9778	127 G A ---	---	ATTAAATCCAGGCAGCGGGGAAAAATGGATACCTTTTCATATGCTCTGTACCCAACTATAAATTTTG GTTCTCATGCACCAATTTTCATTTTGCCTTCTCACTCCAAGTACCAGTATTTTACCAATTTG[A]CTCTC ATAATTGACTTTGCTACTGGAAGAACTCTAGAATGTGGAATTTCTCTATTACACACTTTGGCTCA AAGAAATGTGTCAGTCAGGACTAAAGGCAATAGTCTCAGGGCAGACAGCC
WI-9832	116 C A ---	---	TCCTCCCTTTGCCCTCCTCATGCCCACTCCCTCAGCCTGCACAGAGCGTTTCTCCAGTGTAGTCTCTGGT CCATCTGCATCAAAATCACCTGCAGGACTTGTGACAATGCAGTTTC[C]/A]TGGATCCCACCCAGGA CTCAAAAACACTAGGAATGGGAGAAAGAGGACCTGGAATCGGTGTTGCTAGCAAGCCCCCAGGTGG TTTGTAAGTGGACTAAAGTTTGAGGACCAGACATGGAAGTTGGCTTTGGC
WI-9841	101 A G ---	---	TGGAAAAATAGCTTTTATCAATCTCTGATATGCTACATAIGTCATGGAGAAATGCAGAAATGGCATGA TATGAAATTCATTTTGAATGAATAAATATAC[A]/G]TGTGTATGTATATATCTTATTAAACACTT AGGATTATATACACACAATAAAACGCTCTGTAAAGGATAAACTAAGGTTCTATCAGTGGGAAATGAGA TTGAAAAGAGGGGGATGTGTTACTTGATATGCTGTG
WI-9880c	222 G A ---	---	GAACATAACACCTTCTTGCATGGATTTTCTTGATTATGGCAGTTAACAATAAATGTTATTAGATC ACTGGTGTCTCTGTGGGGTGGATTTTATGATATCTCTGTAGACCCATAAGGGAGGCTGTGA GTTGTTTTCTACATCCTTGGACTATATAAGATCCTCTTTTAAATATATTTTATATAAGCACATGAA AATGGAATGAAATAATGA[G]/A]TTGACATAGGAATTACCTACATATTTG

WI-9880b	157	C A ---	---	GAAC TAACACCTTTCTTGCATGGATTCTTCTTGATTATGGCAGTTAACAAATAAAATGTTATTAGATC ACTGGTGCCTCTGTGTTGGGTTGAGTTTTTATGATATCTCTGTTAGACCCATAAGGGAGGCTGTGA GTTGTTTCTACATCCTTGGAC/AJTATATAAGATCCTCTTTTAAATTTATATTTTATATAAGCACAT GAAATGGAATGAAATAATGAGTTGACATAGGAATTACCTACATATTTTG
WI-9880a	108	C T ---	---	GAAC TAACACCTTTCTTGCATGGATTCTTCTTGATTATGGCAGTTAACAAATAAAATGTTATTAGATC ACTGGTGCCTCTGTGTTGGGTTGAGTTTTTATGATATCTCTGTTAGACCCATAAGGGAGGCTG TGAGTTGTTTTCTACATCCTTGGACTATATAAGATCCCTCTTTTAAATTTATATTTTATAAGCACAT GAAATGGAATGAAATAATGAGTTGACATAGGAATTACCTACATATTTTG
WI-10183	127	C T ---	---	ACACTGAGGCACTCCAAATCCTNACAGACATATGCACCTCGGAATCAACTCAGGCATGCACAGCAT CCCTGTGCTGGAGTTTATTTTAAACAAACGCCCCAGTTATCACAGTTCTNTTTTGTCTCACC ATTTCCATAACAAAAGAGCTACACAAAATTNGGGGGAGANACTCTCTTTGGAGACTGACACATT TGCAGAGGGTGCATGAATAATGATTCCAA
FB25G10b	109	A G ---	---	TCCCTCAATGACAGATGAACATAATTTCTCTGGGTAGAAATACITTTATGTCCATTGTGATTAAA AAGTCAGATTCAAGACACTGCTTTATGTACAAGAAAATGGAA/AJGTGATTTTAGATCCTCCCCCAG TGACAAAGTAACTGAACCTGACCATAATTTATACATAAAATGGAATGTAAGAACCATTATTTGGATATCC CGGAC
FB25G10	109	A G ---	---	TCCCTCAATGACAGATGAACATAATTTCTCTGGGTAGAAATACITTTATGTCCATTGTGATTAAA AAGTCAGATTCAAGACACTGCTTTATGTACAAGAAAATGGAA/AJGTGATTTTAGATCCTCCCCCAG TGACAAAGTAACTGAACCTGACCATAATTTATACATAAAATGGAATGTAAGAACCATTATTTGGATATCC CGGAC
IB3071	102	C A ---	---	ACAACGCTGAACCTTCCATAACAGTCAATGGTACAGTCAACATCACATGTACAGAACACACAATTTA GATGAACCTGAAATTAAGNTAAATAAAATAAAATTC/AJCAATTTTCAGNAAACAAAAATCAAAAC ATTAAGGNTCCCTGNNATATCTTAAACCCCTAATGAGATTTCACTGGNCTCAAGTCATTTTGTAGTGA GGCATTCACAATATGACCCCTATTAAACCCAGTCTAGGGATTCTG
NIB551	161	C T ---	---	CGTCCCTTCCCTTTTGGAGTTGCAATTAAGTAGATAATATGAGAGAGAACTGACAATTGGGTGTCCTC TACTGAGCTTGGGGCCAGGTGTGTACTTAGGAACCCCAATCCACCCAGAGAGACTCATCTATGTTA ACACTAAGGATGCCCTGGAGGAGGTCTCTGACCAACATACATCGGGCCATTGGTTGATTCAGCTTT GCAAGCAGCGTAGTGAGAAAACCAAAAGCTTGTC
S72904	51	G T ---	---	AGCATAGAAAAGTGATTTATATTTTAAATGTTTCAAGTGAAGTCTCTTTGTTAATTTGTGAGTTTC ATTCCTGGAATCTTTTGTAGTTAAATAAGGATCCTAGGACAGCACCTCGAACTACAGGCCCTAAA GAGAAATTGCCTCAACCCACAAAGTGCTGAACCTCTCCCTCTCTGTCAATTTGGTTGCTCTTAAATA TTGCAAAAGTCTTGATGCTAAACAGTATTGGAGTGTCTTCAGTGTCTGTA

UTR-00481	115	CT	---	---	TATCTTTTATCCTGGGCCACAGTCTTGATTATCCTCTGTGGTTAAAGACTGAAATTTGTAAACC CATTACAGATAAATGGCAGTACTTTAGGACACACACACAAACACACAGAC[C/T]ACACCTTTTGATATGTA AGCTTGACCTAAAGTCAAAGGGACCTGTGTAGCATTCAGATTGAGC
ESTC1	33	---	---	---	CCCTGTAGCAGTCTTCAGCCTCCTCTACCCCTACNAGATCTGGAGCAACAGCTAGGAAA
ESTC102	37	---	---	---	GCTACTACCACGGCTGCTTCGTTTGGACAAAAATAACNAGGAGGCATCCACGGGATTAGTTA
ESTC103	21	---	---	---	GCCATCAAAATTTCCCTTCACANTCAATACTGTTGAACAACAAGATAACACATCTTCTTGCTCATCCC ACTTGAA
ESTC107	20	---	---	---	TGCTGGCTCACTTCCTCACANGCTGTATTACCTTTCAGAGCTGAGTGAGGCTGTGCT
ESTC109	35	---	---	---	AAACCAGGAAGGCCCTGCCCGCAGAGGCACATGNACAGGGCAGTGCACAGTGACC
ESTC110	23	---	---	---	AAACCTCACACAGAAAAAGAGGANAACTCAGAAATGTGATTACAGATTAGGCA
ESTC113	37	---	---	---	AAGGGACACAGTGTGCTGACAAGGTGACACTGAACANAAACAGTTTCCCTTTAATTGTAAAAAGCGGG CATCG
ESTC117	24	---	---	---	AATTGGCTCTTCTCCACATGATACNTAAGTTCAAGGTCCAAAGTTCCTATCACAAATTTACAAAAAGC CTCCA
ESTC119	24	---	---	---	TGTCAAGCAGATCTTGAGGGTTATNGTTAAGCCTGATAACAGCCTCTTT
ESTC122	34	---	---	---	GACAAATAAACACAGCTAAGCTACTGACATAAAAAATNCAATAAATTTATGAGATATAAGGTACAGATG AGAAAAATCTGAAA
ESTC123	21	---	---	---	GAAGCCAGTATGTTGTGGCAANATTCGAGAAAAACACACTGAAAAA
ESTC128	42	---	---	---	GCAGAGGCATCAGATAAGGCCTCAGAAAGCCAGGCCATCATNTCCATGGGACCAGGCTGGCTCAA TGTGGAAGTGG
ESTC129	20	---	---	---	AGTCACCATGCCCCAGCCTAGNATGAGTTTAGTAAGATTTGGTTATGCTGGGAG
ESTC13	46	---	---	---	GTGTATCTGGGCTTCATGGGATGCATAAAAAATTTCCAGTTGGTAAGNAGCAGGTGCCGAGGGTCTGGA TCAGAAAA
ESTC130	49	---	---	---	GCCTGCTCACAAGGTAGACAAAAACATAAATCTTCAGGAAAAATGAAACANGAGAGCTGAAACAAT CTACACCTGAATG

ESTC132	30	---	---	---	GGTAAAGTCTAAATTACTGCCTTAGCAAACNCTATGTGTGTCAGGTTTTCTGCTGCA
ESTC137	21	---	---	---	CCAGTTTGGCTTCGTCCICANAGICICITCCCATGTGGCAAACA
ESTC139	45	---	---	---	AGGACACAGCCTAAGGACATGAAGGTCAGAGTTTCTCAGAGAGGNGGGGCTGGGTCCCTGAGCTAG GAGGAGG
ESTC14	20	---	---	---	CCCATTTGGTTCACAGGAAGNAGAGGAGGCCACGTTCTTACTAGTTTCCCTTGTCATGGTTTAGAAAAGC TTGCCCTGGTG
ESTC142	72	---	---	---	CCTAGGCTCATAACAATACAGTCTCAATACAAAAGACGTAATAATCTATTTTTTATTCATTTTAAATC AAAGANACCATTCATTTCTTAACAAACA
ESTC143	29	---	---	---	GTTTACGAAAAGTACTGAAAATGCTATTANTAGCTGAATTTGTGATTTCCCTTTTG
ESTC144	26	---	---	---	AAATCCATATTTCTTGACATGAGGTNGCTTTTAGCAGCATTTGCG
ESTC146	20	---	---	---	CATGTCCAGGATAAGGAGCANACACCAGGATTTATACACGGTGGCAGCG
ESTC148	42	---	---	---	TCCTTGGTTGCTACACAGACACTTAAGTACTGTATCGCTGTATGCGGCGCTGTGAGGCCCTG GGGGTGGCTGGGCTGTGCTGAG
ESTC149	28	---	---	---	TCAGTTCAATTTATTTGCTTTAAGAGTTANATACCATGAGACACACAGTTTCGG
ESTC15	28	---	---	---	GGATTGTAATATTGCCAGCTTTGTAAAGNCATTAAAGCAGAAAGTTCTTCAGTGATCTT
ESTC150	20	---	---	---	CCAGGAAAACAAAGCACACANACTTATAGAATACTTTGGTTTAAAAAATTATTCATAATATCAATATT AAACCTGATGTTTAAAGAACCTAATGAGA
ESTC151	49	---	---	---	GAAGCTAAGGCCCATTTTTTTCTTTTAAATACAAATCTACTGGTGCTNAAAACCTCAGAGCTTAGGA AACACAGCC
ESTC155	37	---	---	---	TTTTTAATTGACAACTCAATCTCTACATACAGTNTTGCACGAATTATAAGTGGATCAACAAATT ATATTATTGATACAAACTCATGAGCATTTTACA
ESTC156	32	---	---	---	GCAGCATTTGTGACAGGAGAGCGCAAAACAAANCCCTGGCTGCCCTGGGATGGAGCGGGGGGCGCTCA CCACCACTGCAT
ESTC158	35	---	---	---	ACCAAGCCCTGGGATTTACTGTCTTGATGACTACANGGCTTTGCACAGTCTGAGATGCTTCAGTGTGC AA
ESTC159	31	---	---	---	AGCTGGCAAGAGACTTCTGAGGCACATCAGNTACGTTGGTCAATTTAGGCCACGGTCTGGTTCTGCA GCTTTGAAAGG

ESTC16	23	---	---	---	CACTGAATGCTCTGCCATGAGCCNCAAGCAGCACAGTGATCATCACCCACAAGGACAGGTT
ESTC160	38	---	---	---	TTCTAGCATTGCTGTGCGAGTGGGGCCTGAGCTGGGNGCAGTCGGCAGTGTCACCTGGGCCGCTTG GGACTGGGTGA
ESTC162	36	---	---	---	CTCTTCGTCGGTTGCAAGTTGCTGTTGTTTCCAGNTACACCAGTCAGAGCTCCACAG
ESTC164	31	---	---	---	TCATTCTCCATAGAATATTGTTTTGTAACANCGAATACAATCCAATATATAACATTAAAAACAATCC GATACATACCA
ESTC169	22	---	---	---	GTCTCTGGTGTGCAGGGAATCANTTGCTGGATTAGAGGAAAGGTGCCCGCTGTGTTCCATGACTT
ESTC176	23	---	---	---	CACCTCCTCCCTGAGCTACCCANGTAGTGTCTGGGAGCTGGCA
ESTC177	42	---	---	---	TGGGTGGCTCTTTAAATACCTTCCATTATATTTTCAAAATTTTNCITTTATTTAAATACCTTTTAT TCTCTTTATTCCCATAAAAAGGCAACCAA
ESTC18	29	---	---	---	TCAGACACTGCCGACATCAGCATTGTCTCNTGTACAGCTCCCTGCAGGGGCCCTGGGAGAC AACTGGACAAGA
ESTC181	21	---	---	---	TAGGGATTCCAAGTTGCCTGGNTTAAATATAATACATAATTCACAAAAATTTACACAGCTCATGCATAC CA
ESTC186	43	---	---	---	GCTTGACTAGCGAGGCTACATCACAAATTTATAAAGTGCCAGATNAGTGCTAAATTGTCTCATTGAGCTTG ATTTTACCTCA
ESTC187	24	---	---	---	ACCATGATTGCCTCACACAAGCATNATCAATCGCCACGAGAGACTGGATGCCAAAGAGTATGGCTGG
ESTC188	25	---	---	---	TCTATTAAACAGGGTTATGTACACACCNTGTCAACCTCCTCAAAACAGATGATACTCATCCTGTCTTCCAT CTTGC
ESTC189	27	---	---	---	AAAGTACAATCCAGTATATGCAGAAAGNTACTCAGCATCACACTCGTGATCA
ESTC196	42	---	---	---	TCCTCAAATACCACITTTCCCTAACCTTATCAGTCTAGTAAGCNTTCAAAGGAGGAAAATGGGTAC CTTTCAGGGG
ESTC197	26	---	---	---	ATCTCCAGTGTCTGCTGCCTCCTCCCNCGCAAAGTCTCCACAAGCACA
ESTC20	33	---	---	---	AAGATTAGGACAGACCGCGTATAGTAAGCTCTGNGGAACTCCAAGAATCTAGAGGGGCTGTGGGAA CGCTGCTTAGATC
ESTC200	44	---	---	---	TTTGGTGAAATCCCAATATATGAGTTTAAAAAATAATCATTANCATCATTAAACAGTACTTTAAAT CAATTACTCCTTTTGCCTGCAACAG

ESTC201	35	---	---	---	TCTTACTTGGGTAGTTTAGCAAAACATTTTAAANCCACATCCAAACAGATTGGTT
ESTC202	22	---	---	---	CTGCTGAGGAGGACAGACGCGNCAGCGGCTGGTGGCGCCCGCCAGAAAGGCTGGCGTGGATGTT CGAGATGAGCC
ESTC203	27	---	---	---	ACACTTAACAGGTTAAAAATATCCAAATNAAATTTACTGCAACTTTTGTAGAAATTTTATTGTGCTAC AAGACACGTTGCA
ESTC208	43	---	---	---	TATAGCCCCATCGCTCTCAGTTATTAGAATCTGAGAGGGATAANAGCAATAACTATTGTTTAAAGC CTAAGAGTGA AAA
ESTC210	29	---	---	---	GATGAAGTGGCTTCCTTTGGCGAAAGGATNAAGAAAGTGAGTGACGGTGACCTGIG
ESTC212	27	---	---	---	GGGTAACCTGATGAGGAAGCTCTAGTGNAGAAATTCAGGACGCGGTCTTCAGAGCAGAGGGCTTGGT TCAAGTC
ESTC214	21	---	---	---	CTCCAGAGTCCCTCCTCTCANACCAGGGCAGGAGGAGTTAGGGAAT
ESTC216	49	---	---	---	TGGCAAGAAATTTATTACACTAACAAAATTAATTAATCACAGGTATTNTAGATTGGTCAGAAAA CAAAAGACCA
ESTC217	28	---	---	---	TTTTGTCAGTAAATGAGCAATACACTGANTGGAATCTGCAATGATTAAACATTAAACAAGTTCAT AAACACACCCCA
ESTC219	32	---	---	---	GTACACATCTGGGGTGAGCACACAGCAAAANGGGTGGACGTGCAGAGAGGTATAGGGTAAAG GCAAAGGAAGC
ESTC22	41	---	---	---	TCATTGAAGAAAATATGGGTTTATTCTTATTCTAATTGNAGAAATGCTTAATGTCACAGGCTACA TAAGGGCC
ESTC223	27	---	---	---	CTTCTGAAGCCCAAGAGAGGGGCAGAAANGTAGTTCTTGATTTAAAAAACAGAAAGGGGAGGAGGA
ESTC224	37	---	---	---	CGAAGGTAGATTTCCCTCACATATTACAAAAATACANAAACACACACACACACACACA
ESTC225	20	---	---	---	TGCACTGTTACTCCCCAGACNGAGAGCTTACATACCATATAGAAAGAGCATAAGTGCTTCAGAAGGA ATGTGTAGGATCG
ESTC23	27	---	---	---	TTCTACTTTATTTTCATATTTCCACCACNATAAGGACTCCTTTAATTTAACTAAAAACCATACAGGGT TCCTGAAAGGG
ESTC230	43	---	---	---	GCTTCTCCACGAATTTGAAAGACATATTGGCTGACCTGATACNTAAGGAGCAGGCCAGAAATTAAGA
ESTC231	24	---	---	---	CAAAAGGGTTAGTCATATTCCCCANCAACAGCATGATAAAAAATTAATCAAC

ESTC28	23	---	---	---	GAAGAGCTGGGCACGCATCTGACNTTTTCTCCTCTATTCTCTATAAAAAATAAAGGAAGCAGAAATCTGC
ESTC3	20	---	---	---	CAGACATGACCTACCGTCCCGGCCCTCAAATTCATATTTATCTTGAGCCGCTTGGTCAGGTTTGATTCGCACACTCC
ESTC31	32	---	---	---	ACAGCCCCACAGAACAATTGTAAACAATAATTNTCAGTCGGTGATCATTTGTAATATACATAACAAGCAATTTCTCTCAGA
ESTC33	25	---	---	---	AGCACTCCAGCTCCTTGACGTTGNGGACCAGGGAACITCCGGAA
ESTC39	26	---	---	---	AAGGAAAGGGAACCCACCTGGGCTTTNGGTCACAGAACTCAGAGCCTGGGCATTA
ESTC4	23	---	---	---	CCACTGAATCACACAACATGGACNAATCTCAAAATCATTTATGCTGATGGAAAGAAACCAATT
ESTC40	22	---	---	---	GGCATGCTAGACAGAGGCATTANTTTGAAGATCTTTTAAAAATATTTTGACTTGTTCCCCCTTCAC
ESTC45	37	---	---	---	TTTGGAGGTTTGCTGAGTTTGTCTTTGTAACNCTCTCATCATCGAGGCTATATATAA
ESTC50	56	---	---	---	CTGTCCGTGGTGAGCCCTGCCGCTGTCCCATGGCCCCAGGGAGCCACTGGTGGCGANCCGGGCAGATGTTTACCCCTGT
ESTC56	45	---	---	---	GTGCCCTGAAGATTAGCAGCAGCAGCAGCAGCAGGTGGCAGGAAGNAGTGGAGGGGAAAGGACACCAAGT
ESTC57	20	---	---	---	AAGTGGCCCTCCCAGTCCCNCTCTCTGGGCACAGATCCCACAGTCTGCTC
ESTC59	38	---	---	---	GAAACACAAAAAGTGTGAGAAAAAACTTCTCAAAATTTGTTCCAGACTTCAGGAAAAATGATTTCCACATGGTAAGGCC
ESTC6	27	---	---	---	TCTGCAGCACTTCACTACCAATGAGCNTTAGCTACTTTTCAGAATTGAAGGAGAAAAATGCATTATGTGGACTGAACCG
ESTC61	57	---	---	---	AGTGATTTTGGCTAGGCGTGGTTCTCATCTGTGAAATTTCCACAGCGCAATGACAGCANCCTCTCTCTCCCACCCACTCAAG
ESTC63	20	---	---	---	ACAGACACAGCATCACACCANAGGGCCCCACGGGAGGGTGGGGAGACGACACTTTTCCCTGGGAAA
ESTC69	20	---	---	---	GAGAGGCTAGTCAGGAGGGANACCCCTCAAGTTTAAATCCCCACACTTACTTACTGCTCATCCGTCACTTTCGCTAA
ESTC7	45	---	---	---	AGTTTCCCTAGAGCTGTGCGCCAGATAGCTGTCTCTGAGTTGCANGCAGATGGAGATTTGGACACTG

EST10398 2a	147 C T ---			TGCCTGGGTGGCAAGGCTGCAAAAGAGGCAAGGAGGCAAGGAGGCTTTTATGAAGCGGGCCATGGTA AGATGCTGCCACCTCTTATCTACTTATGATGATGTTACATTTGGGCTTGACTTTCCAAACACGGAGAAG CATTGTTTCTTCTTCTTGGGCCAAGAAGGTATCTACCAATAGTGCTATTAGGCATTGG
ESTD-C7	14 G C ---			ATATCGTGGCCCTTA[G/C]TTACCTAGAGCTGGACAATCCTGCTGGA
ESTD-				CTTTCATGCACGATAGGCTTTCTCTACTAATCACAGAAATTTGAGAAGAGCAAAACAACTTTCAAGG ATAATGGGCAATCACTTCTTTT[C]TCTTTAGAGTCTACCCGG
D4S95	90 T C ---			
ESTD-				
GPPK2L	38 G A ---			AGTCTCATCTCGGTGTCCAGGTAGATCCCTTTTACC[G/A]CCGAGAACTGCTCGATATC
ESTD-				CTGGCTGCCCCGACAGCTGCTGGCACTGGACGGCGGCCAGGCTCACCTCTATAGTGGGTG
HRASb	82 A G ---			TATTCGTCCACAAA[A/G]TGATCTGGATCAGCT
ESTD-				CTGGCTGCCCCGACAGCTGCTGGCACCTGGACGG[C/T]GGGCCAGGCTCACCTCTATAGTGGG
HRASa	37 C T ---			TCGTATTCGTCCACAAAATGCATCIGGATCAGCT
ESTD-				GGAGGCAGGAGGTGGGGAGGGGTCTGTCTGCCAGGTCCCACAGAACAGAGCGGCCTCAGTG
NRAMP	81 A G ---			TATCCCCACCCCCA[A/G]TGTGGCGCTGGGAGATGAAGAGGAGTTGATGCAGGT
ESTD-OTC				GTGACCTTCTCCTTAA[A/G]AACTTTACCGGAGAAGAAATTAATATATGCTATGGCTATCAGC
EST36751	18 A G ---			AGATCTGAAATTTAGGATAAAACAGAAAGAGGATGTAAACA
7	36 C T ---			CCAAGTCGTTCAATTTAGCTTTCAGGTTTAACT[C/T]GATTACTTTTCTATTCAAATCTCTGTA AAATTGAAATATGAACCTTAGTTTCTGATCTATGGTTCAAGTTAAACAG
				CACGTGAAAGGAGCTATTTTGGAGGCTTTAAGAGTAAAGAACTGTGCCCCAACTTGTGGCTGAC TTTATGGCTAAGAAGTTTCACTGGATGCAATTAATAACAAAT[A/G]TTTACCCTTTTGAACAAATAA
EST40562	109 A G ---			ATGAAGGATTTGACCTGCTTGGCTCTGGAAAGAGTATCCGTACCGTCTGACGTTTGAACAAATACA GATGCTTCCCTTGTAGCAGTTTTCAGCCTCCTCTACCCCTA
				GCTCTATACCCCTGTGGTCTCCACGCTCTCTGGACTTACAGAACTGGATGTTGCTGCTGAGAA GATTGACAGGTTTCATGACGGCTGTGACAGGATGGAAGACTGGCTGCTCCCTGA[C/T]GGGAGCCAGT
EST18288				GTGGACAGCACCTTGGCTTTCAACACCTACGTCCACTTCCAAGGTAAGGCAACCTCTCTGCTGGCTC TGGCCCTAGGACTTAGTATCC
3	121 C T ---			GGGAGTGACAGCTAGAGCACCAAGGGGGCT[C/T]TACAGCTGTGTTCTCATGAGGACAGGCTTCT GCTCATTTCTGG
ESTD-AK- 168	31 C T ---			AATCCCAGCACCTTTAGGAGGCTGAGGCAGGCTATACCCAGAGGTCAGGAGTTTGAGACCAGTCTGA CCAAACATGGTGAACCCCATCTCTACTAAAAATACAAATAGCCAGGATGGTGGTGCATGCCTGT
				AATCCCAGGAGGCTGAGGCAGGAGATGCTTGAACCTGGGAGGCG[A/G]AGGTTGTGGTGAGCCGA GATGGCACCATTTGCACTCCAGCCTGGGCAACAAGAGTAAAACTCTGTCTTC
ESTD-ALB	180 A/G ---			

EST70523 3	182 GT ---	---	TTCCGCCAGCCCCCATCTTGGCACCCCTGGTCCCCCTCAGGGGCCACCCCGGGCAGCTCACCGCTCT CGCTCTCGGTAACTCCGGCGGGCGCCGCTCTTGAGACATAGCCTGGACCGTTCCGTATAGGAGG ACCGTGTAGGCTTCTGTCCCGGGCCCTGCCAGGGGCCAGCCCTGTCAGAGAGAGGGGTCCCTGT GGTTGAGCTGAACACAGCTGTGGAGTGTCTCCACGTG
ESTD- APOA2	101 CT ---	---	CCAGGTGTGTGGCACGTGCCTGTATCCAGCTACTCGGAGAGCTGAGGATGAGATCTTTTGAAC CGGGGAGGGGAGGTTGAGTGAGCTGACATGCTGTCGCACTGCCTCCAGCCTAGGTGACAGAGC AAGACTCC
EST58707 7	112 CT ---	---	CAGTGTATCTGGAAGCCTACAGGACACCAAAATAACCTTAATCATCAATTGGTTACAGGAGGCTTT AAGTTCAGCATCTTTGGCTCACATGAAGGCCAAATTCGAGAGAGCTCTCTAGAAAGATACACGAGAC CGAATGTATCAAAATGGACATTCAGCAGGAATTCACGATACCTGTCTGTGAGGCCAGGTTTATA GCACACTTGTACCTACATTTCTGATTGGTGACTCTTGTCTAAGAACTT
EST74167 6	137 C ---	---	AGACCATGAAGGAGTTGAAGCCTACAAATCGGAATCGGAACTGGAGGAACAACCTGACCCCGGTGGCGGAGG AGACGGGGCAGGCTGTCAAGGAGCTGAGGCGGCGCAGGCCCGGCTGGCGGACATGGAGGA CGTGGCGGGCCGCTGGTGCAAGTACCGGGCGAGGTGCGAGGCCATGCTCGGCCAGAGCACCGAGGAGC TGCGGGTGCGCTCGCTCCCACTGCGCAAGCTGCGTAAGCGGCTCTC
EST43211 8	132 C ---	---	CGCTGTGTGCACTACCGGGGAGGTGAGGCAATGCTCGGCCAGAGCACCGGAGGAGCTGGGGTGCG CCTCGCTCCCACTGCGCAAGCTGCGTAAGCGCTCTCCGCGATGCCGATGACCTGCAGAAGCGCC TGGCAGTGTACAGCCGGGGCCCGGAGGCGCGGCGGCTCAGGCGGCTCAGGCGCATCGCGAGCGCGCTG GGGCGCTGTGGAACAGGGCGCGCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCTG
ESTD- ARSB	126 A ---	---	GGAGAAATGGAGCCTGTGGGAAGGAGGCGTCCGAGGGGTGGGCTTTGTGGCAAGCCCTTGCTGA AGCAGAAGGGCGTGAAGAACCGGAGCTCATCCACATCTCTGACTGGCTGCCAACACTCATGAAGCT GGCCAGGGGACACACCAATGGCACAAAGCCTCTGGATGGCTTCGACGTGTGGAAACCATCAGTGAA GGAAGCCCATCCCCCAGAATTGAGCTGCTGCATAATTGACCCAAAC
EST36770 4	144 C ---	---	TGTAGCCAAAGTCACCTGCATCATCTTTGGCTGCTGGCAGGCTTGGCCAGTTTGCCAGCTATAATCC ATCGAAATGTATTTTCAATTGAGAACACCAATATTACAGTTTGTGCTTTCCATTATGAGTCCCAAAT TCAACCTCCCGATAGGCTGGGCTGACCAAAATATACTGGTTTCTGTTTCTCTTTCTGATCAT TCTTACAAGTTATCTTATTGGAAGGCCCTTAAAGAGGCTTATG
EST26021 1	137 A ---	---	TAATGTAAGCTCATCCACCAAGAGCCTGCACCATGTTTGGAGTTGAGTGACATGTTTGGAAACCTGT CCATAAAGTAATTTGTGAAGAAGGAGCAAGAGAACATTCCTCTGCAGCACTTCACTACCAATGA GCATTAGCTACTTTTCAGAATTGAAGGAGAAATGCATTATGTGACTGAACCGACTTTTCTAAAGC TCTGAACAAAGCTTTTCTTCTTTTGAACAAAGACAAAGCAAGGCC
ESTD- BA511	29 A/G ---	---	GGGAACATAGTGAACCCCATCTCTACA/JA/JAAATAACAAAAATTAGCCAGGTGGTAGCAAG TGCCTGTAGTCCAGCTACTTGGGAGGCTGAAGTGGGAGGATCCCTTAAGCCTGGAGGTGGAGGCTG CAGTGAGCCAAAGATGGTCCACTGCA

ESTD- BCL2	116 A G ---	---	---	AGCTGGATTATAACTCCTCTCTCTCTGGGGGCGGTGGGGTGGGAGCTGGGGCGGAGAGGTGCCGTT GGCCCCGTTGCTTTTCTCTGGGAAGGATGGCGACGCTGGGAGAAC/A/GJGGGTACGACAAACCGGG AGATAGTGATGAAGTACATCCATTATAAGCTGTGCAGAGGGGCTACGAGTGGGATCGGGGAGATGT GGCGCGCGCGCCCCGGGGCGCCCCCGCAACGGGCATCTTCTCTCCCA
ESTD-BCR	69 C T ---	---	---	CAGTGGCTGAGTGGACGATGACATTCAGAAACCCATAGAGCCCCGAGACTCATCTGCGCAAGA GA/C/TCAAAGAGGTGAGCTTCTGTGTCGCCGGAAGGAGGAGGAGGACAAAGCTAACTCTGCTTC AAATCAACCATCCGGTGGACACTGTGTGGCTGCCATCTGCCCTGGCACA
ESTD- BRCA1aa	119 C T ---	---	---	AAGAAGAGAACTAGAAACAGTTAAAGTGTCTAATAATGCTGAAGACCCCAAGATCTCATGTTAA GTGGAGAAAGGTTTTCGAAACTGAAAGATCTGTAGAGAGTAGCAGTATTTCA/C/TJGGTACCTGG TACTGATTATGGCACTCAGGAAAGTATCTCGTTACTGGAAGTTAGCACTCTAGGGAAGGCAAAACA GAACCAATAAAT
ESTD- BRCA1bb	139 A G ---	---	---	ACTAATGTAAGAAATCTGCTAGAGGAAACTTTGAGGAACATTCAATGTCACCTGAAAGAGAA ATGGAAATGAGAACATTCGAAAGTACAGTACAGTACAGTACCAATTTAGCCGTAAATACATTAGAGAAATGTT TTTAAAG/A/GJAGCCAGCTCAAGCAATATTAAATGAAGTAGGTTCCAGTACTAATGAAGTGGGCTCCA GTATTAATGAAA
ESTD- BRCA1cc	126 A G ---	---	---	ATGCATCTCAGGTTTGTCTGAGACACCTGATGACCTGTTAGATGGTGAAATAAAGGAAGATAC TAGTTTTGCTGAAATGACATTAGGAAAGTTCTGCTGTTTTAGCAAAAGCGTCCAGA/A/GJAGGA GAGCTTAGCAGGAGTCTAGCCCTTTCACCCATACACATTTGGCTCAGGTTACCGAAGAGGGGCCA AGAAATTAGAGTCTCAGAAAGAACTTATCTAGTGAGGATGAAGAGCTTCCC
EST51212 0	122 A C ---	---	---	ATCCTGAGCTCGCCAAATAGCTTCTTGGTCTACTTCTCTCCACAAGCCCCAATTTCACTTTCTCA GAGGAAATCCCAAGCTTAGGAGCCCTGGAGCCTTTGTGCTCCCACTCAATACA/A/CJAAAGGCCCT CTCTACATCT
ESTD-C1R	40 A G ---	---	---	ACACAGGTGCTGGCACTGGGCTGGGGATCCTCCTCCCTT/A/GJATTGCTCCGGGAAGCACATTCAAT CAA
ESTD-C1R	40 A G ---	---	---	ACACAGGTGCTGGCACTGGGCTGGGGATCCTCCTCCCTT/A/GJATTGCTCCGGGAAGCACATTCAAT CAA
ESTD-C6	31 A C ---	---	---	CCAGTCAGTTTGGGGACAGCCATGCACTG/A/CJGCCTCTGGTAGCCTTCAACCATGCATTCCATC TAAGCTCTGCAAAAT
EST20118 2	119 C ---	---	---	GTTCCGAATCCTCCTCTGAAAGTGGCCGGTTTAACTGCTCATGACGCTGCGGTGTGGTCCAGCT GAGTGAGGGGCTTGAAGCTGGGAGTGGGTTTAGGGACCGGGTCTCTGGTGCATCCTAAGCTCT GAGAGCAACCTCCCTTGAAGCTGGGAGTGGGTTTAGGGACCGGGTCTCTGCGTGCATCCTAAGCT CTGAGA
EST53018 6	67 A G ---	---	---	ACAATCCAGGTACACATTCAGAAAGAGAGGGGGTGGTCAAGTCAAGTGGTCCAGTAATCCA /A/GJGGATTAGGAAGGAGGCCACCGAGGATCGAAGTTAGTGAAGTC

ESTD- CB22	119 C T ---			GGCAAGTTTTTATTGATAGAGAGGAAATCAAATAATGGCAATGAGGAGACATCACCTGGAATGTTAG GCAGTGCCTAACTGGGGATGGACAGACAAATGGGAGTGCCCAACCCATAGGG[C/T]GGATACAAAAG ACAGGCAAGGAAGGGTAGAACCATCAAGAGGAATAGGCTGGTACCCCAAGCAAGGAGGACCT AGTAACATAATTGCTTCATTATGGTCTTTCCCGGCTTCTCTCACACAC
ESTD- CB23	136 C ---			TAGAACCATCAAGAGGAATAGGCTGGTGACCCCAAGCAAGGAGGACCTAGTAACATAATTGTGC TTCATTATGGTCTTTCCCGGCTTCTCTCACACATACAGAGCCCTACAGGACACAGACAGCT CTCAGAGCAACCCCTAGCCCATTTACCTCTTCCCTTCCAGAGGACCTGAAGAACGTTGCCACCCGA GGTCGCTGTGTTGAGCCATCAGAAAGCAGAGATCTCCACACCCAAA
ESTD- CB24	145 A ---			ACCAGGACACAGACGCTCTCAGAGCAACCCCTAGCCCAATACCTTCCCTTCCAGAGGACCTGAA AAACGTGTTCCACCCGAGGTGCTGTGTTGAGCCATCAGAAAGCAGATCTCCACACCCAAAAG GCCACACTGGTATGCTGCGCCACAGGCTTCTACCCGACACGCTGGAGCTGCTGGTGGTGAATGG GAAGGAGTGACAGTGGGTGAGCAGACACCCGAGCCCTCAAGGAG
ESTD- CB25	146 A G ---			GTTTTCTTTCAGACTGTGGCTTCCCTCCGGTAAGTGAGTCTCTCTTTTCTCTCTATCTTCGCCGT TCTGCTCTCGAACCCAGGGCATGGAGATCCACGACACAGGGCGTGAGGGCCAGAGCCACCTG TGCACAGGTA/GJCTACATGCTCTGTTCTTGTCACAGAGCTTACCAGCAAGGGTCTCTGTCTGCC ACCATCTCTATGAGATCTTGCTAGGAAGGCCACCTTGATGCCGTG
ESTD- CB27	125 C T ---			TTTTCTGTTCCCTGAAGATTGAGCTCCCAACCCCAAGTACGAATAGGCTAAACCAATAAAAAAT TGTTGTTGGGCTGGTTGCAATTCAGGAGTGCTGTGGAGTCTGCTCATCACTGAC[C/T]JATCTTC TGATTTAGGGAAGCAGCATCCCTTGACATCTGAAGTGACAGCCCTCTTCTCTCCACCCCAATGCT GCTTCTCTGTTTCATCTGATGGAAGTCTCAACACCATTTCCATACC
ESTD- D4S338	59 A T ---			TTTTCTGTTTACCTTGTTCAGATCCTTCAGAGGAATCCCTATATGGCAGGTATATGA/JATGTA TTTTCTTAACAATAAACTTGAAAGTCCAAAATTACTCTTGATCCATGGACTGCAGATAAATGTTA TTTTAGCTGTGAGAAACAATACTAATCTTGATATGTTTCATCAGAGCCCTTGGGTGACCAGGTGA TTGCCAATAAGCAGTAATATTTGAGAGGAATCTTGTTTCAATGCAGTAG
ESTD- CYP2D6	61 A G ---			CAGGCCAGCGTGGTGGTGACCATCCCGGCAGAGAACAGGTACGCCACCATATGC/JGJCA GGTTCATCATTTGAAGCTGCTCTCAGGGTCCCTTGGCTGAGCAGGGCCGAGAGCATACTCGG AAAAAACATTTTAAACACCTTTTCAATCATATACACCATATG/JATTTTCCATTTTTCACATAAGTCA GTTGAGCTGAGTTTTCCAAATTACTTGCAATCTAAATGTCAATACTGATTAAATGCAAGTTCAACAG ACAACTTTCCCAAGCATCTACGATCAGAAAGGTCAAAATATTACATATCTGGATTAAATTATGCCCA TATCTGCAITG
ESTD- D1S1873	40 A C ---			CATCCCAAGCCCATCTTAGCCACTGGCATTTTTGGCGCTCTGACAGATACACTCAGGGCCGT CATGCTGCACACATCCAGGGGCGCCCTACCTTTGTAGTCCATGGGAAAGGCTCTCTGGGGCGGTG GGGTGTGTGGCTATGTGGTGGTCTGTGTAGAG[C/T]GGGGGCTTTGGTTTCAAGTTGCATTATGCGTT ATTGCAGATTGCTTTGCTTTCCACCTGAGCGAGCCTC
ESTD- D17S33b	169 C T ---			

STD- J17S33a	75 C T ---	---	CATCCCCAAGCCCATCCTCTAGCCACTGGCAATTTTGGCCCTCTGACAGATACACTCAGGGCCGT CATGCTGCTACACATCCAGGGGCGCCCTACCCCTTTGAGTCCATGGAAAGGCTCCTCTGGGCGG GTGGGTTGTGGCTATGTGGTCTGTGTAGACGGGCTTTGGTTTCAGTTGCACATTTGCGTT ATTGCAGATTGCTTTGCTTTCCACCTGAGCGAGCCTC TTTGAGACCACCCCTGGCCAAACATGGCGAAATCACATCTCTACCAAAATTACAAAATTAGCTGGGTG GGTGTACATGCCTATCGTAATCCAGCTACATCGGAGGCTGAGGAGGAGAAATTGCTTGAACCC[A /GJGGAGGCAGAGCTTGCAGTGAGGCCAAGATCACACCACTGCACCTACAGCCTGGGTGACACAGTGA GACICIGICTCAA
STD- J18S8	133 A G ---	---	AACTGATTAGAACCTGAAATACATAATTTATCTGAAAAAAGTCGAGTTATTGGCTCATCACAATTGG AATTTTGCATCATTAAAAATCCAATAAAGTACACTGTAATAAAGAAATTTAACAGAAATATCATTGT TTATTCAAACTATTTATCACTTATTTATTGGTAAGCCATACTAAATCTAAAGCATGTTTCTGAAAG TTTA
STD- J3S11	44 G ---	---	AGGTTCCACATTATTGCTGATGTTTGTGATGTTTCCIA/GJGGAGCCTTGATGTCATTTCTGTATCTCCT CAGGTATCCCACCTTGAGACGTACTTTTCAAAAACTCTACAGCCGTTGTTGTTATTAAATCAAGGT TGAACATAAAGTA
STD- J3S12	37 A G ---	---	GATCATGTGGCCCAAGTGGCAGAGCTACTTATACCATGACCCAGACCTGCTAGCAGAACATTTCTCTGC TGAGTCTTATTCAAAACTGACAGCCATTTATGCCACCTGAAATATGGTCAGGTTACAGCTGTATTTCCC AGAAAGTGAACATACTGCTCTCTAGAACCCAGAGTCATACTGGATGTTCTGTTTCGGTCTTACGATGG CAGGTATGAAATATAATAATCTGICCTTTATTGGAAGGATGCTGTTGGT
STD- J3S2b	247 C T ---	---	GATCATGTGGCCCAAGTGGCAGAGCTACTTATACCATGACCCAGACCTGCTAGCAGAACATTTCTCTGC TGAGTCTTATTCAAAACTGACAGCCATTTATGCCACCTGAAATATGGTCAGGTTACAGCTGTATTTCCC AGAAAGTGAACATACTGCTCTCTAGAACCCAGAGTCATACTGGATGTTCTGTTTCGGTCTTACGATGG CAGGTATGAAATATAATAATCTGICCTTTATTGGAAGGATGCTGTTGGT
STD- J3S2a	248 G ---	---	TGAATCTTAATTGCTATCTCTACAAAATGTATAATCCTGAATCTGACATCTAGCCACCTCCATAGAT AACTGCTAGAGACCC[A/GJGTCTCTACATCATCTTTTCAAAACATTTTCATCCATGGACTCCATAC TAGAATATTTGAAGAAACAACATGACAAACATTTTC
STD- J7S399	83 A G ---	---	GTGGGACACCGAGGCTCCAGGCTGGCGCTTGACGCTGTGGCTCAAGCAGCTGCTCGGCCTCCACT TCCATGGGTGTGGGCTGGGACCTCACTGTCCCTGGGAGAGGAGGAGTGGGAGGAGACA GAATGCTGATT[A/CJCTGTGGAGAACCAAGAACTTCTGGCCTGTGGTAGGGGCAGCTGCTTCCAAAG ACCTCCTGATTGTAGGAAGGGAGCAGCAGAGCGAAGAGAACAGAGT
STD-DMb	146 A C ---	---	GTGGGACACCGAGGCTCCAGGCTGGCGCTTGACGCTGTGGCTCAAGCAGCTGCTCGGCCTCCACT GJTTCATGGGTGTGGGCTGGGACCTCACTGTCCCTGGGAGAGGAGGAGTGGGAGGAGAGA CAGAACTGCTGATTATCTGTGGAGAACCAAGAACTTCTGGCCTGTGGTAGGGGCAGCTGCTTCCAAAG CCTCCTGATTGTAGGAAGGGAGCAGCAGAGCGAAGAGAACAGAGT
ID-DMa	66 C G ---	---	

ESTD- DRD1	154 C T ---			TCCCAGCCCTATCGGTCTATTTGGACTATGACACTGACGTCTCTCTGGAGAAGATCCAAACCCATCAC ACAAACGGTACGACCCCAACCTGAACCTCGAGATGAATCTCTGCCACACATGCTCATCCCAAAAGCT AGAGGAGATTGCTCTGGGGC/TCTGGCTATTAAAGAACTAAGGTAC
ESTD- DRD2	144 C ---			TCTGCCCTTTGGTGAGGAGGTGCCCCGGGAGCCAGGAGCTGGAGATGGAGATGCTCTCCAGCACCA GCCCCCGGAGAGGACCCGGTACAGCCCCATCCACCCAGCCACACAGCTGACTCTCCCCGACCCCG TCCCACACGGTCTCCACAGCACTCCCGACAGCCCCCGCCAAACAGAGAAATGGGCATGCCAAAG ACCACCCCAAGATTGCCAAGATCTTTGAGATCCAGACCATGCCCAATG
ESTD- DRD3	109 C T ---			AAGACGATGCCAGGATGAGCGCGCAGTAGGAGAGGGCATAGTAGGCATGTGGCGGGCCTGGCTGG CACCTGTGGAGTTCTTCCCCACAGGTGTAGTTCAAGTGGC/TACTCAGCTGGCTCAGAGATGCC ATAGCCCAGAGGAGGTGGTGATGCCAAGGGCTTCTCTGTGAGGAGA
ESTD- ERBB2	93 C T ---			TCTTCAGGATCCGCATCTGCGCTGGTTGGGCATCGCTCCGCTAGGTGTACGGCTCCACCAGCTGG GGTGAGGGGTGGTGAGTGC/TGGGGCGCGGTGCAGACCCCGGGCTGGGAGGACTTCA CCCCGCTCACCTCCGTTTCTGCGAGAGTCTCCGCTCGTACT
ESTD- ETS2	43 A G ---			ACTCAGAGTGTCTTTAAGTGAAATGGTCGAGAAAGAGGCACCT/GJGGAAGCCGTCTGGGGCCTG GCAGTCCGTGGGACGGATGTTCTGGCTGTTGAGATCTCAAGGAGCGAGCATGCTGTGGACACA CACAGACTATTTTAGATTTCTTTTGGCTTTTGCAACCGAAGCAAAATGCAAAACTCTTTTGAG AGGGTAGAGGGTGGGAAGAAACCAACCATGTCTTTCAGAGTTAGTTTG
ESTD-F9	111 A G ---			AGATCCTGATGATTTTTCCTATTTTCTAAATGTTTACAGTTTGAAGTTTAGATTTATGCCCA TGCTCCATTTGAGTTAATATTGTGAAGTATGATGTTTA/GJGTCAAACCTTCATTTTTTTTCC ATAGGTATGTCCAATTTATCCAGCACAAATTTGTTAAACAAAAAC
EST68787 5	144 A ---			CTTCTATGGGATTTGACTTTATTTCTCCATTGCTTACCTTTTACAGGTGTTAATATAGTGAAAAG GAAGCTTGACGCTCATGACAAATTTGAAGCTGACAAATTACACAAGAAAGAAATAAATTCACAGTCAA AGAAATCAAGCACTTTTCGAAACATTGAAGTTGTTTTTGAACCTTGGTGTACCTTTAATTACAACCTAG CAGACGGAACCTGAACCTCAGGGTAAGAAAT
ESTD- GODH	200 C G ---			CGCAGACCGGTGAGTGGGGTCCGGAGTGTGGAGGGAAGGAGGAACTGGGGTTTAGGGACT TTCCGGGGTGACTTTCCCGTCTGTGCTTGAGAGAAAGGGGAGAGAACACAGAGCCAACTGGCTAA GTGTAAGGGACCTCTGGTGCACCGTGTGTTCTGCTGCCCTGTTTCAAGTGTCTGTGCTGCCGAGTTC/ GIGACTCTGTCCCGGAAATCCGAGAGCT
ESTD-GCK	88 A G ---			GTTTTATGCATGGCAGCTCTAATGACAGGATGGTCAGCCCTGCTGAGGCCACTCCTGGTCAACCATGAC AACCACAGGCCCTCTCAGGA/GJACAGTAAGCCCTGGCAGGAGAAATCCCCACCCACACACTGGC TGGAGCAGGAAATGCCAGCGCGCCTGAGCCCCAGGGAAGCAGGCTAGGATGTGAGAGACACAGTC ACCTGCAGCCTAATTACTCAAAGCTGTCCCCAGGTCACAG

EST45311 0	151 C T ---			GCCCTCCCTCCTCCAAATCTGTCCCTATAGTTTCTCTATTAGTGAACATACATGCATCTTTAGT GGATAGATGCACACAAACACACAGCCATTATGGGAAGGATCCACGTGTGGCCATATTGTAACA CATTTTCTGCAAAATC/TACCTCTTTCAATTAACAGCCCTTATCAATGGCCTTTTCTTTTCAGTA GTACATACACATCTGTGTCAATTTGTTGAAT
EST65258 8	80 A G ---			TGCCCCATCAGCGCGCGAGACATGGCTTGCCACAGCTCTGAGGATGTCACCAATTAACCAGAAAT CCAGTTATTTTCQ/GJCCCTCAAATGACAGCCATGGCCGGCGGTGCTCTGGGGCTCGTCGGG GGGACAGCTCCACTCTGACTGGCAGCTCTTGCCATGGAGACTTGAGGAGGGAGGGCTTGAGGTTGGT GAGTTAGGTGGTGTCTCTGTGCAAGTCAGGACATCAGCTGATTAAA
EST38216 3	26 A T ---			ATGCAGGATGAAGGTGGACAGGGAGG/TJGAGGGCCAACTGTATCCAGGGCCTGCAGATGTCG CTGGACTATGGTTTGTGACCCCACTGACCTCCATGAGCATCAGGG
EST62782 149 G T ---				ATACTAGTACAAGTGGTAATTTTGTACATTACACTAAATTTAGCATTTGTTTAGCATTTACCTAA TTTTTTCTGCTCCATGCAGACTGTAGCTTTTACCTTAAATGCTTATTTTAAATGACAGTGAAG TTTTTTTCTCTC/GTJAAGTGCCAGTATCCAGAGTTTGGTTTGAACAGCAATGCCTGTGAA AAAGAACTGAATACCTAAGATTTCTGTCTGGGGTTTTGGTGCATGCA
ESTD- KRT10b	183 C T ---			CCAAAGTTAAATAGTATTGGAGTTATCTGAGAAATTTTCCATGTCAGTGTACCTTTTGGCAATATT AAAGGAAGAAATGCATTTTAAAGTAAGTCTAAGGTTTTTCCATTAAACCACTATTACTTCTAAG AGAACTGTACATGACAAATATTGCCATTACATGAGATCAACTATGTAG/C/TJTGCTTTTAAATAGT CTCTGCCAGATACATCTCCCTATATAAGTTATAACCAAGTATTGATA
ESTD- RT10a	133 A G ---			CCAAAGTTAAATAGTATTGGAGTTATCTGAGAAATTTTCCATGTCAGTGTACCTTTTGGCAATATT AAAGGAAGAAATGCATTTTAAAGTAAGTCTAAGGTTTTTCCATTAAACCACTATTACTTCTA/J GJGAGAACTGTACATGACAAATATTGCCATTACATGAGATCAACTATGTAGCTGCTTTTAAATAGT TCTGCCAGATACATCTCCCTATATAAGTTATAACCAAGTATTGATA
STD- RT8b	231 C T ---			ACCTCACCCCTCCCTTAGCCCTGAGCCGTGGGAAGCAGGAAATCTCTCTCCAAATCCATGAATACACATCGG ATTGGACACCTTGAGAGTCTTAACAGCAGGGCCTGACATGAGACCTCAGACAGAACTTTCTAGAGTT TGCTAGAGGTCAAGGTCAAGACTAAAGAGGGGCCAGAAATGTTAAGTACAAAAGTGAGGCCCATAG GCTGCTATCTCTCCGTCTCAGGTTTACCA/C/TJGTCAACATTGACACA
STD- RT8a	21 C T ---			ACCTCACCCCTCCCTTAGCC/C/TJGTGGGAAGCAGGAAATCTCTCTCCAAATCCATGAATACACATC GGATTGGACACCTTGAGAGTCTTAACAGCAGGGCCTGACATGAGACCTCAGACAGAACTTTCTAGAG TTTGCTAGAGGTCAAGGTCAAGACTAAAGAGGGGCCAGAAATGTTAAGTACAAAAGTGAGGCCCAT GGCTGCCTATCTCTCCGTCTCAGGTTTACCACTGCAACATTGACACA
STD- RT5099	82 C T ---			CACCTGTGTGTCTAGATCTCTCAGTGGCCGCTCTACTGGTTGACTCCAAACTTCACTCCATCTCA AGCATCGATGTCA/C/TJGGGGGCAACCGGAAGACCATCTTGAGGATGAAAAGAGGCTGGCCACC CCTCTCCTTGGCCGCTCTTGAGGTGTGG

ESTD-LF79	142 A G ---	---	GGGTGATTTGAGGCTCAGTTAATATTTCAAAATGTAACCGTAGCAAACTGCAATTGGTATTTAGA AAAATAAAAAATTTCCAATATGTAGTGTGTATACCTGCTCTGCCATGCAGCATATAGCCTGT GGGAACC/A/GGGAGGGCTTCCCTTACCACCCAGA
EST35879 9	142 A C ---	---	GAGATCGGTGTGTGAGTTATTAGGCATGGTTACCTGTGATTTCCCAATCTTGTGCGTTCACCCGATG GAACTGCCGGCAATCCTGACACGTGTGCACCCAGGCTGTACCCAAATTAGGTGAACATGGCTTCGAG AGAGTTG/A/CJACAGATTCTTGGAAAGACAGCAGCGGGATGGGGCAGGAGAGCTGCCTGGATGA A
ESTD-LMP2	35 C G ---	---	TACACACTTTCCTTACCCTTCACTGAAAACGACT/C/GJGCAAACTGGAGCCTTGTAGGAATGGAGT TGACCTTCCCCAAAAGCCACTATGATAAGCTATTTGGTG
ESTD-LPL	113 C T ---	---	TGTCAGTGTCCTAGGGGCACCTCACCACTCCAGCTTCTTCAGCTCTGCCCTGTCTGCTGCTGCA AGGTTTGTCTTAATCTCAATTCATGTCTCTTCATCTTTAG/C/JAGCTGTGGGTTTGTGTTG TTCTCTGTTTTGCTTAGTATCTGACTACTTTTAAATTAATAAAGAGATGTATCTAAACAAAAATAG AGATTGTTATCAGAAGTTCACAACATTTTAAAAATTTTTTACCTG
ESTD-MCC	45 C T ---	---	TTGTCAGGAGTGTGCTGATGCTGCCCTCCAGCTGTCTCCCTAGC/C/JGAACTTCAGGACAACGTGC AG
ESTD-METH	118 C T ---	---	CATCCATGTAGGAGAGCCTTAGTCAAGTGAATGCTGAGGAAGCAGTAAACAGCATGCATCCCCGAA TCTCAGGAAGTCTGTCTTCCAAAGGTTTGGTCTAAGTTGCTGATTACC/C/JGGATTTTCTGACG ATCTTCAACTGCTAGACATCTGTTCTCTGTTTAGCATGG
ESTD-NF1	25 A G ---	---	ATTATCCAGATGAATTTACAAAACCT/A/GTACCAGATCCACAGACTGATATGGCTGGT AACATGGACTTGTATATTTGTACAAAAAAGTTTTATTTTCTAAAAAAGAAAAAAGAGAAA AAATTTAAAGGGTGTACTTATATCCACACTGCACACTGCCT/A/GJGCCCCAAACGCTTATTGTGTT AGGATCAGCCCTCATTTTGTGCTTTTGTGAACCTTTGTAGGGGACGAGAAAGATCATTTGAAATCT GAGAAAACCTCTTTTAAACCTCACCTTTGTGGGTTTGTGAGAAAGGTTATCA
ESTD-NPPA	45 A G ---	---	TGTCCTAGGCCAGCCCTGCTGTCTCCCTGGCTGTATCTTC/A/GJGTACTGCAAGAGAACACA GACAT
ESTD-NRAS	202 C T ---	---	GTGTTTCTTAATCTTTCCAGGAACACAGTGACCATAATTTCTTTCTGCAGGCATATAGAAATTTGGT GGGTTTCTTTTATGTAGGGTGATATGGATACCTTTTGTGTTGATTATATAGCAATTTGAGGG ACAAACCAGATAGCAGAAATGGCTTGAATAGTAGTCTTATTTAACCTTGGCAATAGCATTTG C/TJATTCCCTGTGGTTTTTAATAAAAAAT
STD-PAI 100 A G ---		---	GCCACCACCCACCCAGCACACCTCCAACTCAGCCAGACAAGGTTGTGACACAAGAGAGCCC TCAGGGGCACAGAGAGAGTCTGGACACGTGGG/A/GJGTCAGCCGTGTATCATCGGAGCGCCGGG CACATGGCAGGGATGAGGAAAGACCAAGAGTCTCTGTGGGCCCAAGTCTCTAGACAGACAAAACC TAGACAATCACGTGGCTGGCT

ESTD-PAR	120 A	---	---	CTCTTCAGGAACCAACAGCTCTCTTACCAACACGACTTATTGCTGTCCGAGAGGTACAACCCGCTAGA ACTTCTTCTTAAGTAAATTTAGTTAAAGGAATCGAACTGGCTCTGAAGACATGGAGATACTGCCT AATCGACTGGCTTTTCACTAGCTCTGTGAGTGTCTTCTTCTTCTGCTGTCTAGAACGTTTTCTTAG GACTGGCAGTTTAAAGCTTCACTTAGGCTTCTGTATACCATGCC
ESTD- Per/RDS	74 A G	---	---	ACCTACAGACGCTGCTGGATGGTGTCTCAACCCGAGGAATCTGAGAGCGAGACGAGGCTGGCTG CTGGAGAAGGAGCGTGCCGAGACCTGGAAGGCTT GGAAGAGATTTAAGAAAGCTTGATTTGGAC/CTAACTCTGGTCTTTGAGTGTGGAAGTTCATGTC TCTGCCCTGAGTTACAACAGAACTCTTAGTACAGCGAGTAATAGATATATTCGACACAGATGGGAAT GGAGAACTAGACTTTAAGGTAAAGTAAGAAAGTAGTATTTTTTA GGAATATTTAAAAATATTTAAAAATACCTCCATTTTGCTT[AG]TCTTTTAGTGAAGATGATACCTGC AAAAAGACATGGCTAAAGTTATGATGTCATGTTGGCAATTTGTTTCTTACAAAATCGGATGGGAAA TCTGTTAAGTAAGTACTGTTTGGCTTGGAAITGGATTTTAAATGTTGACTTTATCAT
EST54045 6	39 A G	---	---	ATGAACATGTTCTTTAATTTATGATATGTTGTATAGCTATCTTAAAGGGCTTCTTTTTTTTA ATGCAGAAAGAGGGGAAAAG/AGGAGCGAGCTGTGTGACAAAGGTGTTTCTCAAGGCTCATAC AGATTCTGAAATCATGTTCCCTAGAACATTTTGTAAAGAGGTAAAGTCTATGAAATTTAATCTT CCCGAGGAATCTGAGAGCGAGAGCGAGGCTGCTGTGGAGAAGAGCGTCCGAGACCTGGAAGG CCTTCTGGAGAGTGTGAAGAGCTGGGCAAGGCAACAGGTGGAAGCCGAGGCGCAGACGCGAGG CCAGGCCAGAGGCTGGTGAAGGCTGGGCCCCCTCCCTCCCGAACACTGAGAAATAGTGCACT CCAGAAACGTGGATCTCCCCCTCATCCAACTCCGAAAGTCTGAA TTGGGAAGTTAGAGCCTATATTAATTAACGGAATTAAGGCAGGACACAGAGGCTTAATTGAAAA TATCCCAAGTTGAAATGCTCAGTTC[G/T]CTGTGTGGTTAGATGCAGGATTTATATGATCCGTTA ACCTCT
ESTD- PX/PI	88 A G	---	---	ATCACAGGCTCTGTCTCTGGCCATCATTTCTGTGGAGAGATGG[AC]JGGTGGTCTGCAAGGCTT TGGCAATGTGAGATTTGATG AGGAGAAGCTGAGGAGGGGAAGAGAGACAAGAATGACATTGATGAGTGAAGATGTC/TTGGCTCAG GATGCCGGAATGAC TGAAGCTTCTGCCAGCTTGCAATGTTTCTAGGAGAACC[CT]GCGTCATACCTTTATCTATAGCCTT CCCCTAGTCTT TGAACACCCCTGTGGTCCGAGCCAGGTTGTGTTCTCTGGAGCCCTGAGGAGTTGTTGTCTGTGTG CAGTCCCCCGGCCACCTGCTGTGTTGAGCTGGACATACACCTTCACTCCCTTTGGCCCGGAGAGAC ATTTACCCACCTGGCCATGTCCTGGCCTGTTGTGACAC/CT]CCTCTGTGAAGACCCCAACCCCTGC CTCCCCACCCCAAGCCAGTTTCTTAGCAAGGCGAGGAC
ESTD-RDS	127 A	---	---	
ESTD- S14544	94 G T	---	---	
EST52908 0	45 A C	---	---	
EST19590	55 C T	---	---	
EST76136	39 C T	---	---	
ESTD- SPTB	176 C T	---	---	

ESTD-TAT	224 C ---	---	---	AAATGGTCAGGACCCTGATCCACAAGAGTGGTACCAATTCATCAGGGCCATCAGTTCATTGAGCTC CCATGACTGGGATGCTAAGTCAGCAACTGAGTTCATTTCATCTTAAATGACTTGTGGACAGGATCA ATTCCTCTCACCTAGAACGTTGTTTACAACCTTTCTCCAGTATGGATGGGATTTATGATGGGGG GAGAAGCAAAATTTAAATAGGACCCATGAGACACATCA
ESTD- THRB	125 A C ---	---	---	TGCGGCTTTCTCCGGCAGGTAGACTTCTACTGGCTGTGATTTCCAAGAGAAAGAGTCCCAAG CACAGAAACAGAAAGTTGCAGATCCCATGAGGCCAGTCTCAAATCACACAGGATC/A/C/CTTCAT CCACTGGATTGGCCCAACAAGTCTGAGTGCAGCCAGGACTCAACGGTCCCTGTAGATGGG TAGTGAAGTTTTCATCTCTGTCAGCTTCTGGATTCTTGTTCCACCCGCAACAAGAGTCTATGC CAAGGCAGAAAGCTGGTCTTCATGGGCAAAATCAATGTCTCTCCAGATTTCA/G/TATCCCCAA GCAGTGCATCCATTGACACATAATATGCATCCAGACAAGAGGTCAATAATTTGATGTCGTAA CATGGGTGTGATCCATTTTTCATTGGCCATAGGTCCTATGGGATGACA AGTAGTGGATGAAGCTAACCAGCCTCTCTCACTGATCAGTATCAATGCTATGCTGAAGAATATGAA AACTCCAGAAATCCTAATCAGTCTGTGCTAACAATGCCCTACTCTCTTATGCAATGATACAAA AACCACCTGGTTGAATATAATAGATTGAGTTAATGATTTCTTTCACCTTTATACCTTCTTCT AATACAAGCATATGTTAG/A/C/JATTAAAGTTCTAGGCATACCT AGTAGTGGATGAAGCTAACCAGCCTCTCTCACTGATCAGTATCAATGCTATGCTGAAGAATATGAA AACTCCAGAAATCCTAATCAGTCTGTGCTAACAATGCCCTACTCTCTTATGCAATGATACAAA AACCACCTGGTTGAATATAATAGATTGAGTTAATGATTTCTTTCACCTTTATACCTTCTTCT AATACAAGCATATGTTAG/A/C/JATTAAAGTTCTAGGCATACCT TTCCCAAGGCCTCAATACAAGTCTTTTCTTGGGATTACAACATCAGGCTGTGTTTCTTATTACA GGACACATGGATGCTGGAATCACCCAGAGCCCAAGACACAAGGTCAAGAGACAGAACACCCAGTG ACTCTGAGATGTCA/C/TJGAGACTGAGAACCCCGTTATATGTTACTGGTATCGACAAGACCCGGGGC ATGGGCTGAGGCTGATCCATTACTCATAT TTCCCAAGGCCTCAATACAAGTCTTTTCTTGGGATTACAACATCAGGCTGTGTTTCTTATTACA GGACACATGGATGCTGGAATCACCCAGAGCCCAAGACACAAGGTCAAGAGACAGAACACCCAGTG ACTCTGAGATGTCA/C/TJGAGACTGAGAACCCCGTTATATGTTACTGGTATCGACAAGACCCGGGGC ATGGGCTGAGGCTGATCCATTACTCATAT TTCCCAAGGCCTCAATACAAGTCTTTTCTTGGGATTACAACATCAGGCTGTGTTTCTTATTACA GGACACATGGATGCTGGAATCACCCAGAGCCCAAGACACAAGGTCAAGAGACAGAACACCCAGTG ACTCTGAGATGTCA/C/TJGAGACTGAGAACCCCGTTATATGTTACTGGTATCGACAAGACCCGGGGC ATGGGCTGAGGCTGATCCATTACTCATAT
ESTD-TYR	122 GT ---	---	---	
ESTD- TYRP1	222 A C ---	---	---	
ESTD- TYRP1	222 A C ---	---	---	
ESTD- VB12	148 CT ---	---	---	
ESTD- VB12b	148 CT ---	---	---	
ESTD- VB12a	74 A G ---	---	---	

EST58607	0	105	A G ---	---	CTCTGGATGGGTTACAGGTGGCAGGCACAAGCCAGTCCATCCTGTAGTCATCATAGTTGTTGGCTCC CAAGTTGCTCTCCTCACTGGAGAACAGGACAGCCAC/A/GTGGCGGGGATGGCCGGCGGGAGTTG TGGTTGGCGCCACGGCTGTGGCTCGTTGTGAACGGTAGCCTTTGCGGTGCGATGCCTAAACCTTTGT TTCITGGCCAAAGAGGGGGGGTGCATGCCTGAGATGTAGATGCGGCC
ESTD-VWF		36	G --	---	AGGTAGGAAAAGCAAGAGTTGATTAGTGAAGGAGAGAATGGACCTACCTTCCACACTGTCTTTTGG TCCCCTAGAGTCTG
EST71770	6	189	C G ---	---	AGCACCACTCTCACGTCAAGCCTCAGCACAGATGCTGTTCTATAAGGATGACGTGCTGTTTTACAA CATCTCCTCCATGAAGAGCACAGAGAGTTATTTATTCCTGAAGTCCGGATCTATGACTCAGGGACAT ATAATGTACTGTGATTGTGAACAACAAGAGAAAACCACTGCAGAGTACCAG[C/G]TGTGGTGGA AGGAGTCCCCAGTCCCAGGGTGACACTGGACAAGAAAGAGGCCATCCAAGG
ESTD- TNFab		152	A G ---	---	TTCTGCATCCTGTCTGGAAGTTAGAAGGAAACAGACCACAGACCTGTGTCCTCCAAAAGAAATGGAGG CAATAGGTTTTGAGGGGCATGAGGACGGGTTTCAAGCTCCAGGGTCTTACACACAAATCAGTCAGTG GCCCCAAGAACCCCCCTC/A/GJAATCGGAGCAGGAGGATGGGGAGTGTGAGGGGTATCCTTGATG CTGTGTGTCCTCAACTTCCAAATCCCCCGCCCCGGATGG
ESTD- TNFAa		88	A --	---	TTCTGCATCCTGTCTGGAAGTTAGAAGGAAACAGACCACAGACCTGTGTCCTCCAAAAGAAATGGAGG CAATAGGTTTTGAGGGGCATGAGGACGGGTTTCAAGCTCCAGGGTCTTACACACAAATCAGTCAGTG GCCCCAAGAACCCCCCTCAGATCGGAGCAGGAGGATGGGGAGTGTGAGGGGTATCCTTGATGCTT GTGTGTCCTCAACTTCCAAATCCCCCGCCCCGGATGG
EST52418	6	113	A G ---	---	CAAAATTACAGGGTCAACTGCTATGATGTTTGGAGCCCACTCAGCTCCCTTTGGTGGCTACAAGATGTGG GGGAGTGGCCGGGAGTTGGCGAGTACGGGCTGCAGGCATACACT/A/GJAAGTGAAGAACTGTGAGTG TGG
EST13586	3	89	A G ---	---	CCCACTCTATTGCCCAAGCCCCAGGGACAGAGCTGATCCTTGAACCTTAAAGTTCCACATTGCCAGGA CCAGTGAGCAGCAACAGGGCC/A/GJGGCTGGCTTATCAGCCTCCAGCCCAGACCCCTGGCTGCAGA CATAAATAGGCCCTGCAAGAGCTGGCTGCTTAGAGACTGCGAGAAGGAGGTGCGTCTGCTGCTGCC
EST51976	7	123	A T ---	---	CCGGTCACTC AGGCAGAAACTGGCCCCCATCGGGGGACGTGGAAGGCCACTTGAGCTTCTCTGGAGAAGGACCTGA GGGACAAGGTCAACTCCTTCTTCAAGACCTTCAAGGAGAAAGAGAGCCAGGACAAG/A/TCTCTCTC CTCCCTGAGCTGGAGCAACAGCAGGAAACAGCAGCAGGAGCAGCAGGAGCAGGAGGAGGAGGAGTGCAGATGCTG GCCCTTTGGAGAGCTGAGCTGCOOCTGGTG
EST11458	6	140	A G ---	---	CCACTTTGGTAGTGCCAGTGTGACTCATCCACAATGATTTCTCCAGTGTCTATCTTGTTCGAGTTTT CTCTGCCATGTTGCTATTGCAGGACGGACCTGTCCCAAGCCAGATGATTTACCATTTTCCACAGTGGT CCC/A/GJTAAACATTTCTATGAGCCAGGAGAAGAGATTACGTTATCTCTCAAGCCGGGCTATGTG TCCCGAGGAGGATGAGAAAGTTTATCTGCCCTCTCACAGGACTGTGGCC

ESTD- AT3aa	60 C T ---	---	AGACCTCAGTTTCCTCTGTAAAGGGAAGTTTGTCTTGGATCTCCATGGGCCCCAGC[CT]AGCA CTGGTCCCTGTGAGTCTGTATCAGGTAGAGGAGATGGACCAGGTGGAGAGGAATTTGAAAGGGCA TTGGAATTCAGAGCAAGAGACAGATATTAGAGCTGGGGAATGTGG
EST39852 8	106 C G ---	---	CGGCTTCCTCCAGGTAATTGTTGCAGAAGGCCGAGATGACCTCTATGTCTCAGATGCATTCCTAAG GCATTTCTTGAGGTGAGTACACCTTCCCACCTCTT[C]GJGGTACAGAAAGGAGATGCATGAACA GCAGGAACACGTGGAAGGCCCTGTTTCCAGTGTAAAGGCATGCAAAAGGCCCTCCACAGGCTGCTAT AATACAGCCCT
EST62448 0	112 A G ---	---	ACCTGGTGTGCTGGTGTGGGTGAACCTGGTCTCTTGGCATTGCCGGCCCTCCTGGGGCCCGTGG TCCTCCTGGTGTGCTGGGTAGTCTCTGGAGTCAACGGTCTCTT[A]GJGTGAAGCTGGTCTGATGGCA ACCCTGGGAACGATGGTCCCCAGGTCCGATGGTCAACCCCGACACAAGGGAGAGCGCGGTTACCC TGGCAATAT
EST36027 2	120 A C ---	---	AGTGACTTCCAAGGAATGGCTACCCAACTTGCCTTCATGCGCCTGCTGGCCAACTATGCCCTCTCAGA ACATCACCTACCAC TGCAAGAACAGCATTGCATACATGGATGAGGAGACTGG[A/C]AACCTGAAAA AGGCTGTCATTCTACAGGGCTCTAATGATGTTGAACCTTGTGCTGAGGGCAACAGCAGGTTCACTTAC ACTGTTCTTGTAGATGGCTGCTCTAAAAGACAAATGAATGGGGAAGACAA
ESTD- COL2A1cc	112 A G ---	---	AGAATGTATATAGTCTCAAACCTGGCCATCTCCATTTTCAGTCCAAAAAGTTATACAGCTAGACAACA GTGGTGACATACGTTGCTATTATGCTCTCTTCTCTGTCTCAGTTC[AV]GGGTGTTCAAGGTGGAAAA GGTGAACAGGGTCCCGCTGGTCTCCAGGCTCCAGGTAAGTCAACTCAAGCATATACAATACTGCCT TTGGTCAGCCCTATTGAGCTGTAATCACCATACCGTACCT
ESTD- COL2A1dd	97 C T ---	---	TGAGAGAACACCTAGTCTCTCCATCTCTCTCAATGGCAAGAAAGTTAAGTGACCTATCTAGGGC AATAGACTGAGTTTGTCTGGACCTGGAAACA[C/CT]TGGACTTCTTCTACTGCAGCAGACAAGACTTA CCCAAGAGAGATTAAATGGCAAAGATATACAATACAATTTTATTTGACCAACACTATCATGTGAACA GCATT
ESTD- CPT2	150 A G ---	---	GCCGCAATGCCCCGGAGTTTCTCCAATGTGTGGAGAAGGCCCTTAGAAGACATGTTTGATGCCCTTAGAA GGCAATCCATCAAAAGTTAACTTCTGGGCAGATGAAAAGCTACCATCACTTCTCATCATGAAAAAC TGGGAGGCCGGGCAT[A/G]GTGCTCATGCCCTGTAATCCCAGCATTTTGAGAGGCTGAGGGGGTGGAT CACTTGAGGTCAGGAGTTTGAGACCAACCTGGCCCAACAT
EST12274 0	135 A G ---	---	CCCCAGTTGACAGCCACTGCTCTAGACTAAGTTTCTTGTCTCCAATAGAGCCCTTACCAAAGTGTAT TACATAAAGAAGTCAAGTGGTTTTACTCTCTCATGACCAATATCTTCCCTCCTTAGGATGAGGTG[A/G]TAGTAAATGACCGATGGGTGAGAACTGTTCTCTGTCACCATGGAGGATACTATAACTGTGAAGA TAAATTCAAGCCACAGAGCTTGCCAGATC
EST76807	91 G -- ---	---	ATGCTAAGGGGATCGGACATGAAGGACCCCTGTGAGCCGATTGTCTTATCTCCAGCGGCCCTGTCTATC CAGTCACTCATCAATGGGGCCAGTCAAGGCCAGGCACTGGGCTCCGAGGAGTCAACCACTGCCCCCT GCTGCCATGTGGACTGGTGAAGTTGAGGACTTCTTG

ESTD-SSA1	111	CT	---	---	TTCACTTTGTGGATTGTTCTTTTGTCTGTCAGCACCTTTTCAACATGATGTGATCCCATTTGTCCAAAGTTTGTCTTTGGCTGCTGTGCTTGTGGGATATTTGAAAGAGAT[C/1]TTGGCCAGTCCAATGTCCTTAGAGATTTTCCCAATGTTTCTTGTAAATAGTTTCATAGTTTGAGGCCCTTAGATTTAAGTCTTTTAATCCATT
ESTD-RYR1	109	A	G	---	CTTGCTGACGGGAGGTCACGTCTCCGCCCTCTTTTCATGGACATATGAGTGTCTGACCATTTCCCCTGCTGACAGTATGACACGCGCAGACTTGCTACTATGAG[A/G]GGGAGCTGTGTGCACATCATGCCCGCTCCCTGAGGCTGGAGCCACTGAGAACTCAGCTGGAGTGGAGCCACCTGCGCTGGGGCCAGCCACTCCGAGTCCGGCATGTCACTACCGGGCAGTACCTAGCGCTCACCCGAGG
ESTD-WT1	70	A	G	---	AAGACCTACGTGAATGTTCAACATGTGCTTAAAGCCTCCCTTCTTACTCTCTGCTGCAGGATGTGCG[A/G]CGTGTGCTGGAGTAGCCCCGACTCTTGACGGTGGCATCTGAGACCAGTGAGAAACGCCCTTCATGTGTGCTTACCCAGGCTGCAA
ESTD-F2	100	C	---	---	GATAAGTACACTGAGGCCCCAGGAGGTTATTGCCCTAGTAGCCCAACTGTGCATGCACGCTTAACCTCTGCACCAAATGGCTCCAAAGGCCGTAGGGAACTGGGGGATCTAGGGATGGGTGAGGAATGGGCCAGCCAGTCCCGCGGTGCTGGTCCCAACAGAGGAGGCCGTGGAGGAGAGACAGGAGATGGGC
EST44387	62	CT	---	---	TGGATGAGGCAGCCAGAGCCGTGCACCATGCCCGCATAGATGCGGACCTCAAGCTCGACTTCAAGGA[C/T]GTCTGCTCCGACCTAAGCGGAGAGCCCTCAAGAGCCGAGCGGTGGG
ESTD-PBDA	103	A	G	---	CCCTCTCATGCCCAGATGGAATTCAGTCCCTTCAGGATCTGCCTAACCTGTGACAGTCTAAAGAGTCTGAGCCGTGGTGGGAAGGGCAGGACTAATCCAA[A/G]TCTCTACCCGACGCTTGCTCGCATACAGACGGACAGTGTGGTGCAACATTGAAAGCCCTCGTACC
EST128393	122	A	G	---	TGCAAAACACACAAAATCTTCTCCAGATGCCCTATGGCTGTGGAGAGCAGAATATGGTCTCTTTGCTCCTAACATCTATGTACTGGATTATCTAAATGAACACACAGCAGCTTACTCCAGAG[A/G]TCAAGTCCAAGCCATTGGCTATCTCAACACTGGTGAGTGATTACTTGAGTAAGGGAACCTGAATGTTATTCAAC
ESTD-CTLA-4	48	A	G	---	TGGATTTCCAGTAGGTTTCAGTTACTTATGAATATTATGATACTTAGCTTAGATGGCTTGGCTTGGCTTTCAGCGGCACAAGGCTCAGCTGAACCTGGCT[A/G]CCAGGACCTGGCCCTGCATCTCCTGTTTTCTCTCTTCATCCCTGTCTTCTGCAAGCAATGCACGTGGCCAGCCTGCTGTGGTACTGGCCAGCAGCGGATCGCCAGCTTTGTGTGTGAGTATGCATCTCCAGGCAAGCCAC
ESTD-ACE	96	CT	---	---	GATCAAGCAGTGCACACGGGTACGATGGACCAAGCTCTCCACAGTGCACCATGAGATGGGCCATATACAGTACTACCTGCAGTACAAGGATCTGCC[C/T]GTCTCCCTGCGTGGGGGCCAACCCCGGCTTCCA
EST544198	88	A	G	---	TGAGGCCATTGGGGACGTGCTGGCGCTCTCGGTCTCCACTCCTGAACATCTGCACAAAATCGGCCTGCTCTGCTGCCTAAATTTGAATGATAATTGTTGCTGTGGGACCTGAGCACTTTTATGGCACAAATGATCACTATTTCTTGACCCCTACTAC[A/G]ATCCTGGGAGATGTAATTTGGGTTAGCGTGGTCGTATGTTGCTATCTATAGTCCAAAGTAA

ESTD-PS-1	99 A G ---			GGGAGTAAACTTGGATTGGAGATTCAATTTCTACAGTGTCTGGTTGGTAAAGCCTCAGCAACA GCCAGTGGAGACTGGAACACACCACTAGCCT/GJTTCGTAGCCATATAATGGTTGTGCCTTAC ATTATTACTCCTTGCCATTTCAAGAAAGCATTGCCAGCTCTTCCAATCTCCATCACCTTTGGGCTTGT TTTCTACTTTGCCACAGATTATCTTGTA
ESTD- B3AR	104 C T ---			GGCTGCCAGGGTTCGTGGAGGGCCCTAGCCGGGGCCCTGCTGGCGCTGGGGTCTGGCCACC GTGGAGGCAACCTGCTGTCATCGTGGCCATCGCC/C/JGGACTCCGAGACTCCAGACCATGACCAA CGTGTCTGAGTCTGCTGGCCGCGAGCGACCTGGTGATGGGACTCCTGGTGGTCCCGCGGGGCCA CCTTGGCGC
WI-567b	48 A G ---			TCTACACTGACCCCTACCTTCATCCTCACCTCTGCTGCCTGGTTC/GJAGCCCTCATCTCTTTTA CAGGATCCGCCACAGCATCCCAACTGATCTGGCTTAGGTCTTCTCTCCAATCCATCTTCAAAAG GCTGCCACTGTGATCTCCCAAGGTGATCTGATGCTACCATCTTGCTTCAAGCC
WI-801c	58 G T ---			ATGGAACATTTCTCCATAATGAATGAGGTTCTCAATCCATTCCACATCCCTTTCT/G/JAGATGG TATTGGAGAAGTAGACAGAGAAATTAAGTAGGCAATGCATGTTGCAGGGGTGGGGCTGTGC ATCTGTATGTAGTTACATGGGCACATACGCTCATGTTTGTCTCAGCCACCAGAGAGTTAA CATTTCTGCCACCCCTC
WI-801b	58 G T ---			ATGGAACATTTCTCCATAATGAATGAGGTTCTCAATCCATTCCACATCCCTTTCT/G/JAGATGG TATTGGAGAAGTAGACAGAGAAATTAAGTAGGCAATGCATGTTGCAGGGGTGGGGCTGTGC ATCTGTATGTAGTTACATGGGCACATACGCTCATGTTTGTCTCAGCCACCAGAGAGTTAA CATTTCTGCCACCCCTC
WI-1099b	76 A G ---			AGGAAATGGCTGATACTCCTGTGGCTTCATTATAGTAAAGGAGATGTAATTGCTTGATGAGCCTCT CAAC/C/JTTCCTTAAGTGTGCTGCTTCAGTCAAGTGAACATTTAATGAAGTCTACACAAATTAATAGTGT AAGTTGTAATGCTGAATAAGCTTGAAATAAAGTGAAGAGGTAAAGAGGAGACAACTGTGCTTT TTAAGAAATAGAAGAGTCACTTTTCATTAGAAATGGCTTTGGGGATGACAAGTA
WI-2529	71 C T ---			TAAGGGCTGTCTTCCCCAGAGGGCCCCACGGGACAGAGAAAGCATCTTGATACCCAGGGCCACAA TGAGCAATCCATAGATACTACATATAAGAGAGACCTGTACCCATAGAGGTAACTGAGGATGAAGGA GTGAGTCATATTGGTGGCAATTAATGACCCAGCCTCCTCTCTCAAGAGACTTTTACATTTAGAG AGG/C/GJAGCAGAAGCAGCAAGGAGAAAGGAAGT
WI-10088	205 C G ---			

WI-2625	98 G A ---			GGG CAG T C T G G C T G T A G T G G T A G A C A G C A C T G A A G G A T G G A G A G A G A G A A A C A G G C A G A A G C A C T G T G T A T T A C C C T C T T T G A C T C T G A C C T C T A G T C T T C T C T T A T A G G [G/A] A C C C T G T G A T T A C A C T G T G T A T T A C A A G G C T T A T T A G G A [G/A] C A A A T T G A T G A T A C T C C C T G A G G A C T C G C A G A A T T A C C A G C A G T G G A C A G G G T T A T C T G T G G T G A A T T C A G T T A T C C A C T T G C A G G A G A A A G C C A G C C A A A G
WI-2924	54 G A TAGG	TGACCTTCCTA GTCCTCTCTTA	GCCCTAAGTGT AATCACAGGG	TCTGTGTGCATATTTCCCTCTTTGACTCTGACCTTCCTAGTCTTCTCTTATAGG[G/A]ACCCTGTGATT ACACTTAGGGCTACCTGGATTATTTAGAACAATC
WI-2939	72 G T GTGCCITT	GGCTTGTCTCA	CTTGTGAGGG AAGGTCTTG	CCATTGTGAGGTTGGTGGGTGCTACCTTGTCATTCCTCGCAGTCAACAAAGTGGCTTGCTCAGTGC CTTT[G/T]CAAGACCTTCCCTCAACAAGAATGCTTTCCATGCTCCCGTGTCTTTTGAAAAATTCGACT TTATCCTGAAAACTCAGCTGCAGTGTATCTCCGGTATAAAGCCACTCCTG
WI-3203	99 G A AGACGAG	GGTTATGCCGC	TCAAGTATTGC CTTGTGTGG	CTTGCTACCATGCATTTACAGCATACAACCTCAGTGAAATGCCGTAAACCCCATTTATAAAACAT CTTGCCATCGAAGGGTTATGCCGCGAGACGAG[G/A]CCACACAAGGCAATACTTGAAGTGACTTGGA GAATAAGATTTGGATGGATGAAAGCAGAGAAGGAGATGCTAAAGTGA
WI-3473	101 A G GCCCTAGGGA	AAGCATTTTA GGCTATTTCC	CCTGATGTCAC CAACATTTTCT	GGAAAAAGAAACCTGAAGGATGAGTAGAAGTTAATGGGAGATAGTTGGTAGAGCCCTGTTTGGA GATTGCAGAGAAGGAAGCATTTTAGCCCTAGGGA[G/T]AGAAAAATGTTGGTACATCAGGGCT ACACACTTTTCTGTATGCTCTTCATCAAA[G/T]GCAGGCGTCATTTCTGCACATGGTGATATTTAAG CAGGAGAGCATTTGCTTGGCTCCCC
WI-1796b	29 A G ---		---	ACACACTTTTCTGTATGCTCTTCATCAAA[G/T]GCAGGCGTCATTTCTGCACATGGTGATATTTAAG CAGGAGAGCATTTGCTTGGCTCCCC
WI-1796	29 A G ---		---	AGTCGTCACTCTCAGGGTCTAACTCTGGATCTGGCCTGCAGAGTAGGAAAGAAAGATGGGTGAGT AGTCACATTAAGGATTTTCCAAATAA[C/T]AAAAATGCCCTCTGAAAAATATCTCTCCCATGTCCCTGTCT TAAATATAACATTTTCCC
WI-4360	93 C T AAATAA	GTAGTCACATT AGGTATTTCC	GAGAGATATTT TTCAGAGGCAT TTT	GCTGAGCTTTGTGGCAGAGCCAGGACAATTCAGCTGCCGGATTTTAATAGATTTCTGCAGCACTGCAA CAGGAACCAAAAATCAGTC[C/T]GGGTAACTGAGAGTGGTTTTACACCCAAA
WI-1959b	87 C T ---		---	GTTGTGCCCTGTAGCAGACACAGAAAGGCA[G/A]GAGAGAAAAAGCCTTTTGGTCCAGGGGCTTACAC TGAATCCCTCAACAATGCAAGATGAGCTAATGGTCTTAGAGGTATAATCTAAGTGTGAGAAAAACA AAGGTATAGGGTTTG
WI-1973b	28 A G ---		---	CTTGAGTATGCGTGGATTTGGTATACAGAAATGGGAGAGCTGGAACATAATCCCCCATATACCA AGGGACAAAATGTATCTGTTCTACAATTACAGTAGGAGACATTTATGTTCCATGACAATGGTAAT TTTTAA[C/T]GACAGTTTTTAATTGAGTGAAATACCAATAAAAAATAATAATAGTAGCAGCTAATATT TACTGAGCTGTACTAGGTGCCTATAAATAGC
WI-1980b	140 C T ---		---	

WI-2015b	190 A G ---	---	TGTCAGATAGTCGGTCTCTACCTAGGTGCAGTAGCATGCTAGGAGCTATTAAAGTACACAATTATGCT ATATATTTATACAATATACAATTACTTGCAGATAGCATGACCATGCTAGTGAACCCCAAGACTAT GTGTGAATCGTCTATTAGGGTTTGTCTATAAAGTCTACATGGTCTTTTCCAACTTATG/CATATACTT CTAATACCATAGAG
WI-754b	49 C T ---	---	GAAGGCACAGGGAGAGATGGCTGTCTATCTACCAGCCAGGGAGAGAAGC/C/TJACATTTATTGGTAA TCCTATAAAGTGCACTCTTTAAATTTGTATTTACTTTAGA
WI-754	22 T C ---	---	GAAGGCACAGGGAGAGATGGCT/CJGTCACTACCAGCCAGGGAGAGAAGCCACATTTATTGGTAA TCCTATAAAGTGCACTCTTTAAATTTGTATTTACTTTAGA
WIR-1b	56 A G ---	---	AGGCAATCAGACCTACAGAAGGAACCCCAATAAAACTCTGATGATCGTACATCC[A/G]TGCGCTG GAGGGTGATGCTCTCTGAGGACATGGAGCTTCATGTTGGAGCCCTCCCTG
WIR-1	56 A G ---	---	AGGCAATCAGACCTACAGAAGGAACCCCAATAAAACTCTGATGATCGTACATCC[A/G]TGCGCTG GAGGGTGATGCTCTCTGAGGACATGGAGCTTCATGTTGGAGCCCTCCCTG
			TAATTTTAAATGGGGCCCAATAACACAGTACTTATCTCACAGCATTTCTCTAAAGGCTAAATAAGAA GAAGT[A/G]CTAAAGTTATTAGCTCAGAGCCCTCACACATTTCTCAGTGACTGATAAACAATAAGCA AAGCTGGTGCTGAGATAAGA
WIR-3b	72 A G ---	---	TAATTTTAAATGGGGCCCAATAACACAGTACTTATCTCACAGCATTTCTCTAAAGGCTAAATAAGAA GA/ATGTATCTAAAGTTATTAGCTCAGAGCCCTCACACATTTCTCAGTGACTGATAAACAATAAGCA AAGCTGGTGCTGAGATAAGA
WIR-3a	69 A T ---	---	GAGCCTTTCTAAAAATAAGGATTGTGACTAGCAACCTCCTGTACAGATTCCCTGCTCACACATGTGCA AGGCAGCAGCAAAATTTGCCAGCTGCC
WIR-4	47 T ---	---	CGGGACAGAGACACAGAGAGAGTCTGCAGCATTCAACAAGAGGTTATTAGGACTCAGTTCTGCTG TGAGNCATCCACACTGGAGGATGAGAACACCCAGCTGCAGCCAGAGCCTGTGGTCCCACTGTTAGG TTTTGAAGGGAAGGCAAGGGTTAAAAAAGACACAGAGAGTCCGTGGCTCTATGGAAACACAGG TTTTACGTCCAG
WIR-5g	209 C ---	---	CGGGACAGAGACACAGAGAGAGTCTGCAGCATTCAACAAGAGGTTATTAGGACTCAGTTCTGCTG TGAGNCATCCACACTGGAGGATGAGAACACCCAGCTGCAGCCAGAGCCTGTGGTCCCACTGTTAGG TTTTGAAGGGAAGGCAAGGGTTAAAAAAGACACAGAGAGTCCGTGGCTCTATGGAAACACAGG TTTTACGTCCAG
WIR-5f	196 C ---	---	CGGGACAGAGACACAGAGAGAGTCTGCAGCATTCAACAAGAGGTTATTAGGACTCAGTTCTGCTG TGAGNCATCCACACTGGAGGATGAGAACACCCAGCTGCAGCCAGAGCCTGTGGTCCCACTGTTAGG TTTTGAAGGGAAGGCAAGGGTTAAAAAAGACACAGAGAGTCCGTGGCTCTATGGAAACACAGG TTTTACGTCCAG
WIR-5e	194 C ---	---	TTTTACGTCCAG

WIR-5d	191 A	---	---	---	CGGACAGAGACAGAGAGAGAGTTCTGCAGCATTACAAGAGGTTATTAGGACTCAGTTCTGCTG TGAGNCATCCACACTGGAGGATGAGAACACCCAGCTGCAGCCAGAGCCTGTGGTCCCACTGTTAGG TTTTGAAGGGGAAGGCAAGGGTTAAAAAAGACACAGAGAGAGTCGGTGGCTCTATGGAAACACACAGG TTTTACGTCCAG
WIR-5c	177 C	---	---	---	CGGACAGAGACAGAGAGAGAGTTCTGCAGCATTACAAGAGGTTATTAGGACTCAGTTCTGCTG TGAGNCATCCACACTGGAGGATGAGAACACCCAGCTGCAGCCAGAGCCTGTGGTCCCACTGTTAGG TTTTGAAGGGGAAGGCAAGGGTTAAAAAAGACACAGAGAGAGTCGGTGGCTCTATGGAAACACACAGG TTTTACGTCCAG
WIR-5b	159 A	---	---	---	CGGACAGAGACAGAGAGAGAGTTCTGCAGCATTCAAGAGGTTATTAGGACTCAGTTCTGCTG CTGTGAGNCATCCACACTGGAGGATGAGAACACCCAGCTGCAGCCAGAGCCTGTGGTCCCACTGTT AGGTTTGAAGGGGAAGGCAAGGGTTAAAAAAGACACAGAGAGAGTCGGTGGCTCTATGGAAACAC AGGTTTACGTCCAG
WIR-5a	37 A	G	---	---	TAACCCCTGAAACTTTGTCTCTCCTCATCTCAGGGGAGAACACAGACTTTCATGTTAAGACCCAGAA[A/C] CGCAGTCTGGGGTGGGCAG
WIR-6	63 A	C	---	---	TTCTGACTATT[C/T]AAGCATCTGTAGAATATTGAATACATAGTCTTGAGATTGATC
WIR-7	12 C	T	---	---	GGCGTCTATGACTATCCTGGTCATTGATTGACTAATGATTCTG[C/T]GCCCTTG
WIR-8	46 C	T	---	---	AAACAGAAAAATAGAGGTTATAAGGATGGAACATAAAAGTTGTCAGAAGAGGATGA[C/G]CTGAAG AAAGAAATTACTCTCTTTTGACCAATAAATACAAATTGGGAAACACTGGAAACCATGGCTTGATTACT GACAAAC
WIR-2	56 C	G	---	---	TGTCCTTGCTTATGCCTGCCTCTTCGCTTGGCAGGATGATGCTGTCATTAGTATTTACAAGAAGTA GCTTCAGAGGGTAACCTTAACAGAGT[G/A]TCAGATCTATCTTGTCAATCCCAACGTTTACATAAAA TAAGAGATCCTTTAGTGCACCCAGTGACTGACATTAGCAGCATCTTTAACACAGCCGTTGTTCAAT GTACAGTGGTCTTTTCAGAGTTGGACTTCTAGACTCACCTGTTCTCACTC
WI-7069	93 G	A	---	---	GGTCATTTCCTTTTATCTGTGAGGCAGCCAGCTGACTTGA[T/C]TCTCTGTTTCTGTCATCTCTCCC CCACATACCAACTTCTTCACCATGATGATTATACCAATAATACAGTTCCTTATATGAGGGGCTCTGGA AAATTAGACAGTGAAG
WI-18694	41 A	T	---	---	CACACTGTTACACCTATATTTCAAGTTTGGAAATGC[A/G]TATTTCAGCAGCAATACAAAAGTA TTTATGAAGAATGCATAATCTCTGAAATTAATGAAACATCCCT
WI-18612	37 A	G	TGC	CTTGCAAT	TTGATTGCTG CTTGCAAT

WI-18517	87	C T	CAGCAATCAG CAGCCTGA	TGTTGGACAA GTGCAACA	TTAAAAATCAACTAGGGCTCACCCCTCAACACCCCTCCATTGTCAACCTCTACAGCCTGCATGCC ACAGGAATCAGCAGCCTGAC[1]GTGTGCACTGTCCAAACACAACTGACTGC
WI-18668	76	C T	GGGAAAAAC TAGGCAAAAA	GCTAAATTAAA CTGCACTTTT GC	CGATTGACAACCTTTTATTTTCAACTTAGGTAAACAGTCCAAATCAGTGTAGATTGGCGAAAACT AGGCAAAA[1]TAGCAAAAAGTGCAGTTTAAATTTAGCAAAAGGCTCAAGACAGTATGTGGAAGGAA GGTGAGATTCCCTCTACT
WI-18680	75	T C A	GCTGTCACTCT AGCATCTGGA	CCTCCTGAATA TACAACGGAGC	TAAACATACGAGTACTGTACACGCAAGCATGCATCCCTGAGTCTGAGTGAGGCTGTCACTCTAGC ATCTGGAA[1]CGCTCCGTTGTATATTCAGGAGGGGA
WI-18704	99	A C	GGTTCCTCGA GGGTAC	TGAAGGCCCTG CTGG	CACCCAGGCTGTACCCAGGCTTCTGTGCGAGCACACACCAAGGGGCTTGGGCTTGAAGGAGCC CTTGAGGAAACACGGGTTCTCCGAGGGGTAC[1]CCAGCAGGGCCTTCAGCTTAAAGTCG
WI-18673	29	A G	---	---	TGTGGCAAAACCTTGTATTTAATTGCAAAAC[1]GACITTAATTTACAGCACATTCATAATGAACCAAC AGGAGAGTTGCTGACTTTGTAAACATATGAATATATAAAAAATCCCTTGCAATTCAGGTAGTCAAGGTA AAAAGCGCATACAAGGAAG
WI-18640	121	T C	GTGTTGGGTG GGG	GCAATACCAC TGAAGAGGAC A	ACCAGTCAATGTTTATTTGGAGGTTAATTCCTATTAGGATATGAAGGATTACGAACGATTGAGATT GTGTTCTCACGGAGGGCTCGGGCCAAAGTCTGTGGGTGGGGGTGCAGAG[1]C[1]GTGCTCTTTC AGTGGTATTGCGGACC
WI-18533b	91	T C	---	---	GGGAGAGGAGGTAGATTGCCAAATGAGGCATTTTTTAAACCTCCCGAGATTTCCTTTATTT TATATTTTCAATTTTTCATCCTAA[1]C[1]TACTGAAGCCATTTCTTTGGTTAACCTTTAGA
WI-18533a	59	T G	---	---	GGGAGAGGAGGTAGATTGCCAAATGAGGCATTTTTTAACTCCCGAGATTTC[1]G[1]CTTTA TTTTATATTTCAATTTTTCATCCTAAATTTACTGAAGCCATTTCTTTGGTTAACTTTAGA
D11734	83	A C	TCATCTGATAC CTTGTTTCAGAT TTC	AACCAGGATA AGGCTACAAC ATTT	GAGCATATGCTGCATGAGGACCCTTCTATCTTACATTTATGGCTGGGAATCTTACTCTTTCATCTGATA CCTTGTTTCAGATTTC[1]C[1]AAATAGTTGTAGCCTTATCCTGGTTTACAGATGTGAAACTTT
D49493	159	A T	CCTGAAGGAA TCTGGGAATT	ACTTTCAGGCC AGGGC	CAGGACTTGTGTGCTGAGCTGCAGACACAGAGCAGCTCATGGCAACATCACTGGGGCCAGAGAG AGCTGTCCGCCAGTGCATCATTAGGGGTCTTTCATTGCTAGTACTAGCCCCCTTAAATGCCAGCCTG AGTACCTGAAGGAATCTGGGAAT[1]A[1]GCCCTGGCCTGAAAGTGGCCCATCATTCATACCCACTGTT CT
EST10030 7	98	T C	CATTTTGTTC TCTCAAGTCCC	GCAGTGGTGGT ATGGATGA	TATTTATAGAGGAGACCTAGGAGGAGGTTGACACAGCACACTGCTCAGCAGATGACTTAAATTTT CCCTTAGCCATTTTGTCTCTCAAGTCCCT[1]C[1]CATCCATACCACCCTGCTGATTG
EST10052 2	24	G A	GAGGCTG	TGTGGAACCTC AATCTTAGACT TC	TATTTGGCTCACTTCTGGAGGCTG[1]A[1]GAAGTCTAAGATTGAGGTTCCACATCTTGTGAGGGCCTTC CTGTTGAGTCAATAACCTGGTGGAGTCAATCATGTGGCAAGAGAGAGGGGCTACAGAGAGCAAGAGGAA A

EST10605 2	118 C G	---	CTCTCAAGTAG ATAAGAGGCA TTGTTT	---	CTTGGTAAATCACAGTTCTGTATTATACAAAAACITTTGTTTTCTCTGACAAACTGTACACATAGA AACAAATTTCCAAATGGACAGGAACITTAATTTGTGGAGATGCCCCATGT[C/G]TTGTGAGACTTAA AAAAAGAAAAAGATCCC
EST11048 0	61 T G	---	ATAAGAGGCA TTGTTT	---	CATGTGTAATCCCATGATTGAAAAAGACATGTTGCTCTCAAGTAGATAAGAGGCATAATCTT[G/JAA ACAAAATCTTTCTGAAAATTTAGCTTATGAACCTATTACACTGCAAAACCAGAGAAGGAGCAC
EST11260 8	101 G T	---	---	---	TATGGAGGCCAGAGGAAGTGACACTATATGTGGAAGTCTGAAAGAAATGAAGTGTCAACACAAAA TTCTATATCCAGCTAAATATCATTTAAGAATGAAG[G/T]GGAAATGAAGGCAATATCAGATAAA
EST11349 9	109 C T	---	---	---	TTTGATGGAGAAATCCGAGGCCCTGCCAGCATCCCACCAGTAGATTCTTTGGACGAAGAAATCCT TCTGTGGATTCAGCTTTACCGCCTTCCCTCATCTGCTGGTGT[C/T]TCTCAGAGCTTTAATGTCCGT CCTGCTCTCCGAGTCAG
WI- 16632a	71 A G	---	CCAACCTACTT TGGAGCCCT	TCCAGCTTTCT CTAAAAACTCC T	GAATTCGGGTATTAATAGCGGGTGCCACAGGAGGCACATAGGAAGAGCATCCAACCTACTTTGGAG CCCT[AG/JAGGAGTTTTTAGAGAAAGCTGGAGCCCGAAGACCAGTAGTAGGAGGTAGCCAGACCAA AAGGGAGGAAGGAGTGGGAA
EST11772 6	74 A G	---	---	---	CCAGGAATAAAGAAAAAAGAGTCAGAGGAAACAGTCTTTGATGTTATGAGGCTGAGACACTACTC TTCCCTTCA[AG/JG]ACTATTTCTATTCTGACTATAAGTGAATAAATACATTGAAGACTTCAGGAGCTCA
EST11795 3	82 G A	---	---	---	CTTGCCATTATTTTGTGCATGTTGTTCTTAAAGGCTTGTAAGATAACTTGGAAATGTGGGAAAC ACATAGATCCCAGA[G/A]TATTAAAGGGGCTGGAAGAGTAGCCTTAAGAC
WI-16644	42 G A	---	CAATAAGCAG CTCATTTTGAT TAC	ACTTCATGAAT TTTACTTCATG TATACC	AGAGCAATGGTGGCATCTCAATAAGCAGCTCATTTTGATTAC[G/A]GGTATACATGAAGTAAAAATTC ATGAAGTAAATTCATTATACCAAAAAGCCTCCACAGAACTTTCATGCACCCTGAGCTATGTGAAC TGAAAAGTAACAGTGGGAT
EST12005 9	56 A G	---	TTGTATAATA ACACTCAGTA CAAAGTCTGT	GGCTGGTCACT TCCTGGAT	GCCTAGTAATTCAAAAAGGAACATGTTTGATAATAACACTCAGTACAAAAGTCTGT[AG/JATCCAGG AAGTGACCAGCCGACGTGTCTATGACCCCTCTGAACCTCCCATTTCCATAGTTTTTGAAATC
EST12055 9	32 T C	---	---	---	GTGGAAAAATTTTTTATCTGTACGCTTTCC[T/C]ATTATATTTATCTTGCTCTGATTTTCAGCACCC CACCCGATTTGCAGGCAGTGTCTTCTAAACTGTGCCCTGTGAGCTGTTAAAAAGTCTCT
EST12492 1b	95 A G	---	---	---	CCCCTAGCAAAATGACTTGGAGTTGTGTCCAATTACCAAGTTACATACTGTTGCCAAAAATTAAGCTCTC TTCCCCAGAGGCCATTAAGTGAAGATTAT[AG/JGGAAACGCACAGCAAAAATTGACGATGCAGCTTTTAA CCTTTTTA
EST12492 4	25 A G	---	---	---	ATCTTGAGGTTTCTGGGCCCTGTACAG[AG/JAAGTGACATCTTTTACTTACCACAGGTCAGGAACCCCTAT AAAGAAACTGTGTAGAAAAAGATAICAGGTCAGACTTTTTAAAGGGCTTCTTATCAGCTCAATAAA

EST12502 2	52 C G ---			ATAACTAGGGAGAAACCAAACTGGAGGCAAGTCCACAGGTCACACTTGTCA[C/G]CAGCAAGTAT AAACAAAGTGGTTTCGATGAAGAGAAATGCTCAGGGGAAATGACCAATTTTAAGGGCCATGTG GTCTCGAGGCAGTTAGAGG
EST12619 8	105 T C ---			CCAGAGAAAAATTAGAATGTATCGGTAAAGAAATAGGAATGCATATTTCAACTCACTGTGCACAAA CAGGTGTTTATTATCCCAATGACAGTGTCCCTGAGAT[C/G]ATGCATGTGGCAGACGAG
EST12620 0	67 A G ---			TTTTCTCTCTCTCATTTATTCATTTGTTCAAAACACTGTCTAGTACCAACATTTGTCACCGGGC[A /G]TTGAGAATACAATATTGAAGAAGAGTCACTGCCCTGCCCTCTGGAATAATCAGAGTATTTGA
EST12817 9a	22 C A ---			TTGGGGTCTCCAGGATCCAG[C/A]CTCGTAGCTGATGTGCATGAGGTTCTCATCCATGCTCCACGG GTCTTGGGAGTGACCGGATGGGAATCCATGTTGCTTTGCGTACCTCCATCAGGTCATTGGG
EST12941 8	23 T A ---			TCTCAGCTTCCACCTGACCTGCA[T/A]CAACAGCCCAAGTTATTTACCAGAAATTTTGTTGCGTTTCA ATGTAGTGTTAGCTTTAATACACTGCACCTGTTTG
EST12949 2a	52 A G ATACTGTT	GGCTTTAATCA TAACCTAATA	TGTGTCCTGT GGGTCTC	AGGATTTTCATGAGGCTTTAATCAATAACCTAATAATACTGTTAAAAACAACAC[C/A]GTTCTGTCACCTG CAGAGACCCACAGGGACACACATTTCTCTCTCACATAGACTCTGAGGTAGGAGGTACACTGGCT AAGGAATAA
EST13067 4	104 C T ---			ATTTTTGTTTCTTAAATGAAGCATAATAACAGTTAAAAATCTCAGAAAAATCATCTATAGTTGA GTGTAACCTCCCTAAATCAGTCTTCTAGGGCCACA[C/T]GGAGCAGAAGCAGCTTCCCACCCCAAG CACCTCTGAAC
EST13117 6	66 A G ---			TGCTGCTGCATCAGTCTTTAAAAATTTAATCGCTTTATACAATTGACACCAAAATAAAATGCAC[A /G]TATTTAAAGTTACAATTTGAGAAAGCTGACACGTGTCCAACAGACACACCTCATTTTACTGTGC TTTACTG
EST13121 6	44 C T ---			TCTGCTTTTAAAGATTCCTCATAGCTGCTTAGGTTTGTCTTCC[C/T]AGCATATTCAGCTATAATCA CCTACATTCCTCCACAAATATTTCTGTGTGTCAGGCCAGTCTCCTCACTGTCCTCATGAATAGCC AGTCTTATTTCCACTCT
EST13226 6	74 T G ---			AACTGTTTACTAACAAGGTGCTTTAATTTGAAAAGCAATTTGAGGAAATAAATTAATGAAATAGTCT GGCCATTT[G]GACTAACCAAGTTCTACAAATTTACATAICCGTCACTCAGATGAGCATATACCAAG TCAGAGGAAACAAAACATG
EST13230 6	72 G A AGAGACGC	GCTCAGATGTG AGAGACGC	CCGGCTCCTGT ACAGAGA	GCATCATCAGCGGCTTTTACTGAACCTACAACCAACTTGGCGCTCAATATGCAGCTCAGATGTGAGAG ACGC[G/A]TCTCTGTACAGGAGCGGTACTGTCTTCAATCCTTTGCATGCAGGTGTTTACCACAGGCA AACAGTTTACTCCACAT
EST13236 9a	70 T C TCTCAGGCT	AACCAGATTT TCTCAGGCT	ACAAGAGGGTT TGACAAAAGA G	AAAGATATAAAAAACAACCTCCCATCAGTAGCAATACAAGGTTATACATTTTAACCAGATTTTCTCAGG CCTT[C]TTTTGGATACCTTTAGTAGTTAACTCTCTTTTGTCAAAACCCTCTTGTATATAAACC

EST13278 2a	51 A G G	CTTACCGAA CAATATTTAG	CATATCTGG GTGGTGAGAA	TTGCGAAGACGTTTACAAGCTCCAAACCTTTCCACCGAACAAATATTTTAGG[A/G]ATTTGAAATTTAT TTCTGTAGTTCTCACCACCCCAAGAAATATGACAGCTTG
EST13282 0	99 A T	CCACACATTTC AGTCCAAGA	GATGGAAAATT TGAGGAAGGTT	GCTCACTAGATGAGCATTGACCAAAATATTAGATAATACCTGTTGGGAAAAGTGTGCTGAATTAAGCC TGCCTGAGAATCCCACACATTTTCAGTCCAAAG[A/T]AACCTTCCCTCAAAATTTTCCATCTCCCATCAGA GG
EST13290 9	39 A G CTT	CAATTTTAGA AGTTGGGTT	AAATCATTCA TGGAAAATTCA	AGCTCATCTGCAAGCAATTTTGAAGTTTGGGTTTCTT[A/G]CTGAAAATTTCCATGAAGTGATTTTTT TTTTCTGTGCTTAACCTCAGTTACTTAAAGACCTAAAGACAAAGTGGTATCACATCACATATTTTGT ATGTGGGGCTTTTTTG
EST13518 2	45 C G ---		---	GAAACATCCTCCAGTAGTATTGAGGTTAAATGATTGAGCATTT[A/C]GJACTTTAAAAATTACCTCA ATGTTCTCGGAGTCGTCCATAGTTTAAATGACTTCGACCTTCTTATAACCTTGATTG
EST13522 8a	66 A G ---		---	CAGGTTGGTGATTCTCAACTAGGAGCTATTTTGGCCCCCATCCCCGCGCAGTGTCTGGAGAC[A/ G]TTTTGATTGTCACAACTCGGAGAGGTGGTGCTACTGGAATCACTGGGTAGAGGCCA
EST13568 6	69 T C ---		---	CTTTAAGGAAGTGAGCCAGATGAATCCAATGACCAACTGGTTGAGAGCCATTGGTCTAGGAGTAGA AA[T/C]GCACACAAGGAATAAGGGAGAAGGAGGTTCCGTTAGTTGAGGGAGAGAAAGTTGGAAGCA TTTTCAAGCTAAGTAAATGGT
EST13785 0	101 C G ---		---	AAGATTACGGACCAATAAGAACTGCCCCCGACCCATACACACACAAATTTATAGCAGGTAACCA CTGAAAGGAACAAAGTAATGACTTCTTGAACAA[A/C]GJTGATTACGAAAGTGAAAGGCTACAGGG TGATTACTA
EST14038 1	25 A G ---		---	CCTCAACCATCTGTAAACCGAGCCC[A/G]CAGTGACCGGGACTTGCTGCTTCCCCATCCAGCCCTCT CCTATCAGCATCCGCTAAGCGTCAGTCAGCAGGTG
EST14083 7	23 A G ---		---	CAATGGTGTCCATGTGAACATAT[A/G]ACCTATTCTATAAAGTTAAAAATAATCCCTTCTTGCAATCA CAGTGCAAAAGGCATGAGGGTGAAAGTCATCTGCTAAAATGACCGAACAGGAGGTAGGAGG
EST14221 5	42 T C	GCATGCTAGA CAGAGGCATT	GGAACAAGTC AAAATATTTTT AAAAGA	AATATCAATGCATTCTGTTGGCATGCTAGACAGAGGCATT[A/T]CTTTTGAAGATCTTTTAAAAAT ATTTTGACTTGTTCCTCCCTTCACACTCATTTTAAATTGT
EST14812 2	50 A G ATA	CAAGTCAGCTT CTACATTCTGA	TAAAGATTAC TTAAATCCCAT TATGTACT	TTCACTTAGTACCAAGGATGCCCTTCAAGTCAGCTTCTACATTCTGAATA[A/G]AGTACATAATGGG ATTTAAGTAAATCTTTAGAAGTCCCGAGTTTGCCCTTTTCTAACATTTTCATATCAGGTGAAAACAAT TTTTTCATATGGGTGATT
EST14815 3	128 A T	ICATCACCACCC ATACTGGTT	CGGGAAAACA GTACCGGAA	TTTGCTTCGGCAATACATAGTGGCAATGCAGCGTGAGTTCGGCCGCTCTCCCCACTGAACCAGTAAT TCACCAGACAATGGCGCACCACCTTAAATAAACTTGCCCGTCAACCCACCATACTGGTT[A/T]TCC GGTACTGTTTCCCGTA

EST15420 6	109 C A ---		---	TTTAAACCCCAAGACTTGTAGATGTCAGGACTCCGATCATTTTCTCTGCTATAGCTTGGATATCTTA ATCTCTCCCTTTTGTGTCATCAATAATCATATAGCCAAAGGGACTC/AJGGAAATTTTGGCTGCTTCAAGTCA TTCCAAACCTCTCAGG
EST15700 6	48 G C GGA	GAAAGACAA AGACAACAGA	GGAATAGCTGA AACAGAGATA TTATTCCTC	GTCACACAGCACATTTTATTAAGACGTGAAAAAGACAAAGACAACAGAGGA[G/C]JAGCAGAGAATAATA TCTCTGTTTCAGCTATCCAGGATGTTATGCCAATTATCCAGAGTCTTGATCTGATGTAGTA
WI-16739	57 G A CACAAGC	GGTTTTGCCAT	GATAGTTGATG TTCATTATTCC CTATAA	AAGGATTGAAAAACATACCTAGATCATATAAAATTTGTGAAGGTTTTGCCATCACAAAGC[G/A]TTATAG GGAATAATGAACATCAACTATCCTACAGCTAAACCTAATGAAGACCAAAATTCCTCCAAGGT
WI-16782	96 C T CACTGTAAGG	GGTGGGAGTCT	CTTCTATCTTT CTGTTCTCTCA TC	CTTCTCTCTCTAGACGTGGAATACACACGGATACAGTATCTGGAGATGTAGCAGCTGGCTCTTGAC CATAATGGTGGGAGTCTCACTGTAAAGGA[C/T]GATGGAGAACAGAAAGATAGAAGAAGTTTGGGGT GCTGATGAAATTTGTGGG
WI-16783	64 A G G	TCCTGAGATGT CTTTACCTGA	CTGCTTGGTTC AATCCTTATTA G	AAAAATGTAAACCTTAGAGTTGCCCTCTTTTGTGTACCTTTTCTGAGATGCTTTTACCTGAG[A/G] CTAATAAGGATTGAACCAAGCAGTATTTTTTAATGGCAAAAGTCCAGATGTAACTCGAGT
EST15948 2	58 T C ---		---	CAGGACTTAAGGTCAATTTGCCCTGGAAGACTTTAACTAAAGTCAGGGCAACATAGGA[T/C]TGTGA CAGCACCACCTCGGACCAAGAGTCTGAAAATCGTCACACTAGCGTGCCAGCCCTTTTTCCTGGC TGCTCTGCTCCAGAGC
EST16088 8	89 G C ---		---	GGTTTTGAAGACGCAGCTTTATCTCCACCTGCCACTGGGATTCTCATTTTGAGAGCTGTTTGTGACGCC TTTTCCAGAAAGGCCGCTC[G/C]GGGTTTTCTGAACCTCTATGGGCATTTTAGAAT
EST16089 9	96 C T ---		---	CGTCTGAAGTTTTCTTTTATCACAAGTCACATCAATCCCTCGGGCCCTGCTCAAAATGCCACCTCTTC CTGAAAGCCATCCCTAAGTAGTCTCTC[T/AAAGAGCCCATCCCTGCCCTTTCTTTGCT
EST16100 1	24 C G ---		---	ATCCAGCTGTGAAGGGACAGGAG[C/G]GTAAACACAGTCCATTTATAAGGGGTGTGCACATTCCCA GGGGCTCCAAATAATGCAACAATTGTTTCACTCGTCCATGCTGATAGTTTCATAGTAAAGTCAAGTCA ACTCCAGACAGGTTGGCTC
EST16104 9a	83 A G ---		---	TTCTTTTAAATAACCCACAGACACCCATGACACTTCCAAATTTACAGAGCAAAAAGTGATTTGCAG CTGGTTCTCCAGGG[A/G]TTGGCCCCGAAGCTGGCTCAGTTCAGTCCAGGACCTCAGTC
EST16118 0b	119 T C ---		---	ATGGTATAACAAAAATCAGTCCAGGTTTTTTTCTGAACAAATGATCCTTTGGTCTTTCCCGTGGCATG CTCTAAACAACTAAACAAACCCCTACGTCTAATCAGTCACCTAAGATA[T/C]CGAGTGGCAAGT CTTTCACA
EST16118 0a	32 C G ---		---	ATGGTATAACAAAAATCAGTCCAGGTTTTTTT[G/G]TGAACAAATGATCCTTTGGTCTTTCCCGTGGC ATGCTCCTAAACAACTAAACAAACCCCTACGTCTAATCAGTCACCTAAGATAATCGAGTGGCAAGT CTTTCACA

EST16151 2	53 C T ---			AGCCAAATCAAACGAACTCTATCAAAACACACAAAGGCGCTAGAGGAGAGATT[C/T]AATGAACGT AAATAATTCAGGGCAATTTTGTATCTAAAGCAATTTTGTCTAGCTCTACAAAGGCATGAATGAGGTGT GGTCACGTTTTTGTATAGGA
EST16182 6	54 G A ---			CATTGGTTGGTAGGGAAGATAGTAGTGCAAAATAAAATGGTAAACAGCAG[G/A]AAATGGAA TTATAGCTTTCTTTTCATATAGGGAATGAAATTTATTTACTGAGGGTGATAGCAGAAAGTAGTA
EST16183 2b	59 A G ---			GCAGGTAACCTGTGGTTCAACACGATTGTTCTTTCATAAAGAAAGAAATATCTAGTT[G/A/G]TAG AGGAAGGCACGTCTTCTCGCCCTTCTCGTTTCATATTTTATGTCACGTGCTCAACGTGGGCCGTGT GCAAGAGATCTTTGAGA
EST16198 4a	28 G A ---			AATCTTAGGCTCTTGGCTTTCAAATCA[G/A]ACAGACAGATAAGAGCTTTTAAGTATTTTCGCATTT CCCCAGAGGAATAAGTCAGCATCATAAACCATGGGTACATGCTCACGCACATGGTGTGTC
EST16229 2c	52 T C ---			TGTGAACCTCGAATTCGCTTGTCCAAAGTCTGAGTCACAGTTTCATTTGGGAGT[C/C]CCCTGTGCAGCC CTTGCCAGTTTCCACGAGGCAGGATCTCCACTAGCTGATTACAGACAGGACAGAGGCTGCA
EST16229 2b	45 T C ---			TGTGAACCTCGAATTCGCTTGTCCAAAGTCTGAGTCACAGTTTCATTTCTGGGAGTCCCTGTGCAGCC CTTGCCAGTTTCCACGAGGCAGGATCTCCACTAGCTGATTACAGACAGGACAGAGGCTGCA
WI-16816	124 A G TGGGGTTA	GGAGCCATTGT	GCCTAGATTTT	CAGACTTTTCTCAGACCTCATTTGGCTGGAACCTGGTGCACATGCACATCCCTTGAACATATCATTTGGCAA AGGGAATGGGTATCAAAATTTGCTTAAGGCCAAGCAGGAGCCATTGTTGGGGTTA[G/G]ACTGTCC TGAACAAATCTAGGCTC
EST16269 5b	49 G A ---			GCCACTCTCCTGTGGCTTGCTCTGCTCCAGCTGCTGCCAGTGCCACACAG[GA]TGGTCTAGCCTCATGG CAGAAGCATTTTAGCCAACTCCTGGTCTGCTCCACTCTCTCTCTCCGCCGCTGGGGCTCACCACC TCTTCCCTCCTCAATC
WI- 16824b	83 G A ---			GTCACCCAGCCCAATGCTTCAGGAATAAATGATGGTGCGAGCTGTTGTTCTTATGAAGAAGTCAG AAGCTGATAAACGTGG[G/A]CTTACACCTTTAGCACGGATAGTTTCTGGTCCCAAGTGGGTGTGGA GCCTTCCATTATGGGAATA
WI- 16824a	47 T C CAGCTGT	TGATGGTGCTG	TTCTTCATAAG	GTCACCCAGCCCAATGCTTTCAGGAATAAATGATGGTGCTGCAGCTGTT[C/G]TTCCTTATGAAGAAGTC AGAAGCTGATAAACGTGGGCTTACACCTTTAGCACGGATAGTTTCTGGTCCCAAGTGGGTGTGGAGC CTTCCATTATGGGAATA
EST16445 3	96 T C ---	CAATAAGCA		TTGCTTTTATTATCCAGAAGGCATGCTACAGATACTGTACAGCATGAACATTTATTCATTACAAA AATGGCTTCCAAACCATTAAAAATGAACTT[C/G]GGAATAAGAGCATAAACGGAAACAGTAACATCA
WI-16857	47 G A A	GCTAATGGCA	TGTGAATTGGG	TATAATCCATCTCCAACACACACACAAATAAGCAGCTAATGGCAAT[G/A]CTAGTGGTCTTCCCAA TTCACAAGACCTGTGCTTCAAATGTTTCTCCGATAAIGGGAGAAATCTGCTCTTTATGTA

VI-16879	79 C T	GATACAGCC ATAATTC	CAAGGCTTCT AGAACTAGAGT CC	AGACAGGTCAAACAACCTCCTAGGGATAAAGATATAAATCCAGCACAGCATTAATTTCCAGATACAG GCCATATTTCCCA/C/TATAGGACTCTAGTTCTAGAAAGCCCTGGGAGAACAGGACACCCAG
VI-16882	99 A G	GAAATGCCA CGTCTGAC	GACACATGTCA GGTAAATCGC	ACATGAATGGCAACCTCTTAGGTGGGAGAGACAAATTCCTCCCTTTACCCAAAGGTTACTCTGAC AAGGCTATGAATGAAATGCCACGCTCTGAC/A/G/GCGAATTTACCTGACATGTGTCATCTCCCT
VI-16888	70 G A	GCTAATTTGG GCAGGTT	AATGTTCTGAA TTGACCAAATT TAA	GTAGTAAATGTTCACTACTACCCGGGAGAGCAAGAACCATGGAACGGTAGCTAACTTTGGGCAGG TTC[G/A]TTAAATTTGGTCAATTCAGAACATTTCCAAAT
VI-16905	75 C T	ACTTGGCCTGT GTGTTCA	GTCTATACTCT TCTAGGCAGTG GG	TTTGTTGTTGTTATTTGCCCTCCCAACATCAGAACATAAGTTCCATGAAACAGGAACTTTGGCCTGTG TTGTTCA/C/TCCCACTGCCTAGAAAGATATAGACA
VI-16910	74 G A	AAGAGTAAAG ATGGCGCTAG	CAAAATGAAG TATCGTTTCTA TAACAGA	AGTTTCAGTATGTGCTTAAGGAGGTTATATTCGCTATGACTTTCTATCTCAGAAAGATAAGATGGCG CTAGAA[G/A]GTATCTGTTATAGAAACGATACCTTATTTGGCCTGAACCACTGAAGGT
VI-16918	93 C T	CAGCCATTAA CACCAGCAC	TCCTGATACAG AAGTGGCATC	GGAAGAAAAATAAACTACCACCATCTCTCTGCTACCACAGAGCACTAAATCTAGGAAATTTGAC TTTACTGCAGCCATTAAACACGACAC/C/T/GATGCCACTTCTGTATCAGGAACTTAACGTGACAACC ATGAAAGGTCCTCTGAAAG
VI-3947b	127 A C	GGAAAGCAGA CCTGGGG	ATGTGATTGCC CGTGG	TGAGTCAAACGATCTTGACGGGAAGCTGTTAGAGGTCTCATGGAAATAGGCCTGGAGCACAGGATT TGGCTGAGGCTTTCAACTGACATCAGACAAGACTGCAATCAAGGAAAGCAGACCTGGGG[A/C]CCA CGGCAATCAGATGAGATG
VI-3947a	58 C G	CATGGAATA GGCCTGGAG	GCCTCAGCCAA ATCCTGT	TGAGTCAAACGATCTTGACGGGAAGCTGTTAGAGGTCTCATGGAAATAGGCCTGGAG[C/G]ACAGG ATTTGGCTGAGGCTTTCAACTGACATCAGACAAGACTGCAATCAAGGAAAGCAGACCTGGGGACCA CGGCAATCAGATGAGATG
VI-16966	43 T C	AAATGCACAC TACATAACAA CCTAA	TGCAAGTTATC AGTATAAAAA CTCATATT	CATTTGTTTTACTTTAAATGCACACTACATAACAACCTAATA/T/C/CTTAACTTTGGTCCAACATTTT AGTATAACTAATAGATGTTTTTACTGATAACTTGCAATGCCATTAAA
VI-16995	55 T C	GAGCAGTAGA GACTGAGGTA	CATGTTGATTT CCAGCGGT	TTGAGTGCCAGACATCAAGCATAGAAGAGCAGTAGAGACTGAGGTAATAGTATT/C/JACGGCTGG AAATCAACATGCCTCTCTCTGTGAAGTTGTGAGCATGGAGCTGAGAAGGCTGAGTCAATCT
VI-3992b	60 T G	---	---	AAATACATGGTGTCAACCTCAGCTAAGCACCAGAAAGTACACTGTGCGCCCTCATCTGAGA/T/G/GTG TAGGACTGTAAAGGAATGTGTTTGGGGTTTAGGAA
VI-3992a	46 G A	AAGCACCAG AAGTACACTG TC	CACATTCCTTT ACAGTCCTACA C	AAATACATGGTGTCAACCTCAGCTAAGCACCAGAAAGTACACTGTG[C/G/A]CCCTCATCTGAGATGTG TAGGACTGTAAAGGAATGTGTTTGGGGTTTAGGAA

VI-17010	23 T C	TTCAACAGGA	AATAATACGGT	ATGTTTCAACAGGAAAGCCATGTC/CJATGACATTCAAAACACCGTATTATTAGAAAGCTCATTTAAT
SI-17127		AAAGCCATG	GTTTGAATGT	TGTTTAATGCAGACAAAAATCAAGGCTAACTAAAGCAGATCCAAATGACCCAGTGATCAACCTAGA
b	74 C T	CACTCGGCAC	GGGAGGCGCAGG	GGTCCACG
		AGACAGAGT	GGTG	ATCCGTCTCCAAACAGCATCCAGGCGGGCATCTCCCCACGATTTTATAATACACTCGGCACAGA
VI-17040	94 T C A	AAITCTCTTAT	GGACTATGGCT	CAGAGTC/CJTJGGAGCCATGGGCACCCCTGCCCTCCCCAGGCTTCTTAAGTAACAACT
		CATCTCAAGCC	TATTCAGTGAT	CACGCGTTCAATTAATTTGGTACAAAGCATGAACACTCAGGACAGATTGGCACAATACATGCAGTTC
			G	GAGAAATCTCTTATCATCTCAAGCCAGTC/CJCATCACTGAATAAGCCATAGTCCAGTCTCGTTTTCC
				AAATCTTCTCATATTGT
		GCCAAGGGAT		TTGTTTTGTTTTTCTCTCTCTGCCAAGGGATTAAAGTATAGGTC/TCTTAAACAAGGGGATC
II-17044	47 G T G	TAACGTATAG	GGGGATCCCCCT	CCCCACTTATAGCTGACAGCAGCAGCTGCAACCAGTACTCTCTGCAGAAATGGCAGGGAATCGAAT
		TG T G	TGTTTAAGA	CAAAAGAAAAGCAAGTG
		TGGACTTGTC		GCATGTGTTGGAGCAGATCTCCATGGTAAGCCAAAAGTGGACTTGTGAGCCCTATAACTACTCT/JAG
II-17021	62 T A ACTC	GCCTATAACT	TGTAGAGTTAG	CAGCTGCCACTAACTCTACAGGCACAGTAACTACACTTTATACAGGACACATGCCAAAGTGCCTGG
		ACTC	TGGCAGCTGC	GAGGTGCCAATAAAATCAA
II-17065	90 T C CTT	CCAGAAAGGA	CCCAAGAGAC	TGTAAAAATGTAGACATGGGGGAAAAACATTCGTAATCAACATGTGCTGTTTTCTACTTCCGGTA
		AAAGCATAAA	AATGAAATCCT	CCAGAAAGGAAAAGCATAAACTT/CJAGGATTTCATTGTCTCTGGGT
		TGTACAGCCA	GAGATGTTGAA	
II-17066	32 A C T	ACATCACTGTT	AATGTTCTGGA	TTCATAAGGTTGTACAGGCCAACATCACTGTTT/CJATTCAGAAACATTTTCAACATCTCAAAAAGA
			A	AACCTGCACCCATTAGCAGTCATCCCTGTAGCTCCCTCATAGGCAATGGCAACTGCTGATC
II-17074	86 T G ---		---	TGCTGACTGTCATGACTTAGTAAGGCCATCACAGGTTGCCAGAACATCTACTCAACTGTTCCAAAGCAT
I-				AACCTCCTACACAGGCCIT/GJCTACATAGGAGTATATTTGGCCAAAGACTCACCACCTAGAAGTGATT
7104b	108 T C ---		---	CAGATGAGAACTCATGCTGGCTCATCTGCAAGCTTCCGTGATGCTTTCGAGCTTTCCCATTCATCCCA
				AATCAGAAAGCAGTCAGTGGCCCCGTGGTTCCAGACGGCTT/CJCTCTTTGTTAAGAAATTA
II-			TTGTATTATAA	AGGTTCCAAACAGATGTTCCATCAAGGACTTTGTTTTT/CJGTCTCTTCACTGCTGCTATTATAATAC
7114a	37 T C	TTTCCATCAAG	ATAGCAGAGTG	AAGCTACCTCCCAAGGCCAGATGCTCTAAGTGCTAAAGAAGAGCTGCAGCCACAATCAGAGTTACAT
		GACITTTGTTT	AAGAGAC	GGGA
		GATGAAATTC	TTCTCAGAATC	
II-17150	76 T G CTCTT	AGATAGTCTTC	CTGGAAGATAT	CGTGGCTGGACTAAGTGCTCTTTCCATGTGGACACATCTCCACTGAACAGGATGAAATTCAGATAGTC
		CTCTT	G	TTCTCTT/CJCATATCTTCCAGGATCTGAGAAGGGCCCTCTTTGTCTGCTCTAATTT
		CATTTCTTTGT		GAAATCGAATACGTCCATTTCTTTGTAAAAATAACAATAACGTTT/A/GAAGGCAAAAAGCAAGATTCTG
I-17163	43 A G TAAGTT	AAAATAACAA	CAGAATCTTGC	TAAACCAACATTGGAAAAGGGGACACAGGGAGGGGCAGAGGGGAAAGGCCAGATTTTCAACGGTTT
			TTTGGCCTT	CCTCCACATCTGCAGACAAA

VI-17178	127 T C	GGACTCCCTCA	CCCTCAATTTT	AGCAATGTCCTCCCAATTCATTAGCTATGAGGATTATCAGTTTCATTTTCAGAGCGAATTACTGG GGCAGGGGGTTTAATATCTCTGATGGTTTAATTCAGTGAGGACTCCCTCATGAGGAGC[T/C]AGAA GCAGTTGAAAATTGAGGG
VI-7180b	81 C G	---	---	TCATGGACATCCTGAAGCAGACACAAAAATATAGAGAATCTGCAC[T/C]CCCAAGTCTCGTCGCACAG GCTTCAACAAATTAC[C/G]AACATCTTGCCCATTTTGTTTCATTATCCGCACCCACACTGACAGATGAG GGAGTC
VI-17180a	47 T C	CACAAAAATA TAGAGAAATCC TGCA	TGCGACGAGAC TTGGG	TCATGGACATCCTGAAGCAGACACAAAAATATAGAGAATCTGCAC[T/C]CCCAAGTCTCGTCGCA CAGGCTTCAACAATTACCAACATCTTGCCCATTTTGTTTCATTATCCGCACCCACACTGACAGATGAG GGAGTC
VI-17156	54 G C	TGTTCTCTAAA CTTTAGATATC TCCCA	CAAGAAATAT ATATTTGATTTC TGTGGAA	TGAGGTAGCAGGGCATTCTTAAGAAATGTTCTCTAACTTTAGATATCTCCCAT[G/C]TTCCACAGA ATCAAAATATATATTTCTTGTTGGAAATTTTAAATGTTCTTAACTATCTGCCTACCATCCACCTCAAT TAATATTCTTG
VI-17149b	79 T C	---	---	CAGGCAGTTAATGTGCTGACATAGTAACAAGGTTTGAAGGAGGAACATCTCATGACGTGCGTGGAA ACCCAAATTGTCAT[C/G]GTGATGAACACAAAAGGATGGGAAAAGAACACATTTCTCTACA
VI-17149a	48 C G	CAAGGTTTGA AGGAGGAACA	CCACGCACGTG CATGA	CAGGCAGTTAATGTGCTGACATAGTAACAAGGTTTGAAGGAGGAACAT[C/G]TCATGCACGTGCGTG GAAACCCAATTGTCATGTGATGAACACAAAAGGATGGGAAAAGAACACATTTCTCTACA
VI-17197	67 G A	GCAGAAGTAG CTGGGGCTAC	GGTGAGGTGGT GCATACC	ATTTTGCTATGTTGCCTGGGCTGGACTCCAGCAATCCTCCTGCCTCAGCAGAAGTAGTGGGGCTAC[G /A]GGTATGCACCACCTCACCTGCTTATCAGTTTCGTTTAAAGAAATATTGACTTTTAGATGCGCA
VI-17198	38 A C	TCCCTCTGTC CCTAGTTT	TCCATTTGTCC ACTGAGAAATT	TGTAATTCAGTACTTTCTCCCTGCTGCTAGTTT[C/G]TAAATTTCTCAGTGGACAAATGGACAA ACCATCTCTGTTTGAATTTGAATACACAGATACATGCAAGATATCTTACAAGAAACAATGCACATCC TTC
VI-18753	27 C T	CTACCCAGGCT GGTCTCAT	GGATCGCATGA GCCTGA	TCGCTATGCTACCCAGGCTGGTCTCAT[C/T]TCAGGCTCATGGATCCTCCTGCCTCTGCAGTGGCTGG GATAAGACACAACCTGCCACCGCCTGCCCTAGGAGTAGTCTTAATGCCTGATGGTGGG
VI-7108b	74 C T	GCCATTGAGTC TCAAGTAAA CA	AACACGATTT ATCATATGCTC CC	TTATTTTAAACATAACCAGATGCACCTTGTTTTTACATTCTCTGGTTGCCATTTCAGTCTCAAAGT AAACAC[C/T]GGGAGCATATGATAAATCGTAGTTTAAAGGAAGCCATAGCACATTACAGAGT
VI-19067	41 A G	---	---	ACACAAAAATTACCATCGTGACCATTTAAGGGTATAGTTCA[G/G]TGCGCATTAAGTACATTCAACT TTTTGAGCAACCCGCCCATCACCATTCATCATCATCTCCGTT
VI-19067	40 A C	CGTGACCATTT AAGGTATAG TTC	AAAAGTTGAA TGTAATTAATG CCA	ACACAAAAATTACCATCGTGACCATTTAAGGGTATAGTTCA[G/C]AGTGGCATTAAAGTACATTCAACT TTTTGAGCAACCCGCCCATCACCATTCATCATCATCTCCGTT
VI-19125	28 A G	---	---	CTGTTTCTCAGAGATGACACTGCCAACA[G/G]TCACAGATTTGCATACAATACAGTTATGTATTGGC TATTCACAAATTTACAGTAGTGTGTTTTCTCTGAAAAA

EST20824	115	T G	AGTCGGGAGT GCTGATTG	AAGATTTTATC TTGGACCCGA	GTGTGGAAGCCGGAGTTTATTATTATTCAAATCAGTCTCTCTGAAAACCTCAGGGATTGAGGTTTTTA AGGATAACCTTGGTGAGTAGAGGGCCAGTAAGTCGGAGTGCTGATTGTTGTCGGGTCCAAGATAAA ATCTTAGG
NI-17347	50	A G	ATCCTCAGAA CTTCTCAGCCT	TCAAGCATCCA CTTGTGCTA	TTGGTTAAATGATGCCAGATGGGGTCACATCCTCAGAACTTCTCAGCCTTACGAGTGGGACAAAGTGG ATGCTTGAAGAACTCAGTCTTGAACCTCAGACAGCAATGGAGCGGGATGTGAGTGGGACCA
EST21904	128	G A	TTCATATGGCC ATTTTAATAA GTG	GGCAGGTTTC AGAAAGCAT	TGATTGTGGGCTGGGAGCAGGTGGGCAGTTTCAAGTGGAGCAGAGGAAAGTAGACGCAGTAGAAAT GAGACTGGAATCAATAGAACAGAAAAATGTACTAGGCTTTTCATATGGCCATTTTAAATAAGTG[G/A]TA TGCTTTCTGAACACCTGOC
EST22111	82	T C	GAAGATCTGT CTGGCATTCCT	TGGAATAACA GCCCCAC	CAACAATGTAGACATAAGGGAACAAATTCAGAGAGCTCAAGTCACCATGTTTGCTAAGAGAAGAT CTGTCTGGCATTCCTTTCCTGGGGCTGTTTTTCCAAGGCACA
EST22197	78	T C	AATTATCTGC TATTCCTGCCA	ACCATGAAGG ATGGGGT	GTTTAATGATCACTCACCAAAATCCACAGGAGAACTCTTAAATGTTTACAAGCACCAATTTATTCGCT ATTCTGCTCCATTCACCGCATCCTTCATGGTAGAGTATCAAAAGTAAAGTTTCTGGTTGTTTCATC TACTTAAACCA
EST22311	92	T C	---	---	TTTTCCATGGATTAGATCATCTTTTTATTGAGTTATAATATACATAAAAATCCACCACCTGTAAACAG TAGCATTCATGTTTACTCTATTCCTCAAGCTGGGCAACTATCACTACTATCTAATTCAGAA CACTTTCATCATCCAG
EST22311	54	A G	---	---	TTTTCCATGGATTAGATCATCTTTTTATTGAGTTATAATATACATAAAAATCC[A/G]CCACTGTAAA CAGTAGCATTCATGTTTACTCTATTCCTCAAGCTGGGCAACTATCACTACTATCTAATTCAGAA CACTTTCATCATCCAG
EST22311	41	T C	GGATTAGATC ATCTTTTATT GAGTTATAA	TTGAATGCTAC TGTTTACAGTG G	TTTTCCATGGATTAGATCATCTTTTTATTGAGTTATAATATTCACATAAAAATCCACCACCTGTAAA CAGTAGCATTCATGTTTACTCTATTCCTCAAGCTGGGCAACTATCACTACTATCTAATTCAGAA CACTTTCATCATCCAG
EST22319	19	A C	---	---	TCGAGGAGCTCTGAGGAGC[A/C]CACCAAGGGACGTGTGTCAGGGCCACCCTGCAGGCAAGTGTG GTCCAACTCCCTCCCTTTACAAAACCTCCAGCCTCACCCACACAAACACTGGCTGACAGGCCCTTCT TAAGCCTTTTTAACTGT
EST22433	103	A G	AAGACATGTT CACCAAGTGA GAA	CAGCTTCAGCT TAAGTACAGAG G	GATGTTAATGACTTCTTGGAGATATGATGGAATAATATTCAGGTACACATGGAAAGACATGTT CACCAAGTGAACCAATCTAACCCAGAAAGCTTTACC[A/G]CTGTGAGTTAAGCTGAAGCTGAAATTT CTGGAGCTTGACATGCTG
EST22657	71	A G	AAATGGATCC TTATCTGCACA	GCATGAATTT T	TATCCATTTCAAGAAAAAAATGACTTAAAAATACAAATTCATCCAGAAATGGATCCTTATCTG CACA[A/G]CCATTGAAGAAAAAAATTCATGCAAACTGAAACTATGCTTT

ST22993	71	T C	ATCCTTTTGTT TCTACCCCC	TTGCCGTGTTAA TTTGACTGTAA TG	GCCTTTTATTGTCTCCTTTTAAACATCAAATGTTTTTATAACACACTTGATCCTTTTGTCTTCTACCCCCA ATT/C/CATTACAGTCAAATTAACAGGCAATATAATAGGTCTAACAGAATGCTTGCAATTT
ST23021	108	T A	---	---	TTATTTCTCAGCTTACCAATTTGTGACTTATATCTCTGTACAAGGTGTTTTTCTCCATGGAGAAATG TTAAATCTTTGTGAGGTTAATTTTATTAAATCTTTGCCCTTT/AJATGGTTTTGACAGTTTGTGTCTTTCT T
NI-17387	55	C G	CCTTGCAGAT TGAAGAAAA	GCTTTTGCCTA AGATTAATAGT AACTACT	ACAGAAATTTTAAACATGCAAGTTTCATTTACATTAACCTTTGCAGATTGAAGAAAAA[C/G]AATATTAG TAGTTACTATTAACTTAGGCAAAAGCCATTTCTTTG
ST23669	101	A C	AATGTAAGCT CCAGAGGCAG	CCTTCCCTCC TGTAAGC	TTTTTGGCTTGTCTGCAGAAATAGATGAAAAAGAGAAATATACCCAGATACTTTGCTCACTCTCCCCA AGTGCACACTAGGCAATGTAAGCTCCAGAGGCAG[A/C]GCTTACAGGAGGGAAGGACGCTGAGGC CAAGAGTGGCTGCTCACTG
ST23733	31	T G	GGCTGTTAGTT TTGTTTTGTTT	TGCACCTTTAAA TCCCATCAAT	AAAGGCTGTTAGTTTTGTTTTTGTCTTTTCCCTTT/GJATTGATGGGATTTAAAGTGCATATAACTGAAG GCAAGTCCCAAGGCCTAGAGAAAGATATAGGCCCGAGAGAGAGGCTCAGAGATTCTAGAGGCGGC TGAAGAATACCCACCTAAA
VI-17470	83	A G	GTCGGTCCCG CCAG	CCAGTGACGAG GCCGA	CTGACACGTCCCTGTGTGGGGGTGCTCATGTGGCGTGTGTGTGAGTGAGACTTTTTTACTGCGTCCC GTCCCGCCAGCCCT[A/G]TCGGCCTCGTCACTGGCCTTGGTCACTTTGTATTCTGTCTTGGTTGGAAA TACCATCAGCCCTCC
VI-17519	55	T C A	GTTGCTCAGC TAATGAATGC	AAATTATTATTT TGACGGCAATA CTC	TTTTTAACGAAATCTCACTACTGCAATGCATTTGTCTAGCTAATGAATGCA[T/C]JAGAGTATTG CCTGCAAAATAATAATTGAGATTCTATTTTAAAGAAAGCTTAGAACAGTACATGGTGCATAG
ST25356	95	C G	---	---	TCCTTGATACAGTTAACAGTTTGTAAACATTAATTCAGAACTTCACTGTATCTTCAAGTTTTTGATAT CAGCATCTCTGTGGAGAAAGCAGTGTG[C/G]TATAATGTCAACATCAGGATTCTTTTTT
ST25356	26	A C	---	---	TCCTTGATACAGTTAACAGTTTGT[A/C]JACATTTTTCAGAACTTCACTGTATCTTCAAGTTTTTGA TATCAGCATCTCTGTGGAGAAAGCAGTGTGCTATAATGTCAACATCAGGATTCTTTTTT
VI-7581c	99	C T	---	---	GGGTGACGCTCCAGAATGGAGAACAGCCAAATTTGGGAGCAGATTGGATCCAGCTTCATTCACACATT ACTACCAGTTATTGATAATGATAGAACCCAA[C/T]TAGCGCAATTTACATTGACGCGTCATGC
NI-7581b	86	T C	ATTGATAA ATTGCGCT	CGTCAATGTAA ATTGCGCT	GGGTGACGCTCCAGAATGGAGAACAGCCAAATTTGGGAGCAGATTGGATCCAGCTTCATTCACACATT ACTACCAGTTATTGATAAT[C/G]GATAGAACCCAACTAGCGCAATTTACATTGACGCGTCATGC
VI-17596	86	A G C	ACTTCCCTGTG TAAACACTCC	CATTCTTATAG CTAGAAATCGA CAATAT	GTGTGCTGGTAAATGGATAATAGCAGTCTCTCATCTCTGAAGGGTGGGAAGTAGGAGAGGCGCTACT TCCTTGTGTAACACTCCC[A/G]ATATTGTCGATTTCAGCTATAAGAAATGGGCCACTAAGTGGGTC

NI-17623	46 T C ---	---	TGTGGTTTAAATTTCCCATATAATTAATGGTGGGCACATTT/CJGCAATGTGCTTACTGGGTC ATTCATATACTTTTGTGAAGCATCTGCICCAATCITTTTGGCTGACITTTGGAGTTTTTTGGT
EST26419 1b	46 T C ---	---	ATTTACATACAGAGATACAAAGGCAACTATGTGCAGCAACAATCTGA/T/CJGGCAGTCCAAAACCTTCT TGGGAGGAAGTAAATTCATGGTAAATGTCATGATGGCTGGTTCGAGGAGAAGGTTCAAAGGAGGAGTAG AGAGAGGAGACAGAGAATG
EST26419 1a	35 C A AG	CAAGAAAGTTTG GACTGCC	ATTTACATACAGAGATACAAAGGCAACTATGTGCAG/C/AJACAATCTGATGGCAGTCCAAAACCTTCT TGGGAGGAAGTAAATTCATGGTAAATGTCATGATGGCTGGTTCGAGGAGAAGGTTCAAAGGAGGAGTAG AGAGAGGAGACAGAGAATG
EST26780 5	69 G C ---	---	TCAGCTTTAAATTTAAGGACATGTAATAAAAAAGATGCATTTGACAGGACAGCAGACTAGTTCAAGC AG/CJAGGTTAGACCAGTAACAACAACCAAGAAAGCAAAGTCTCGTTTCCATCTTGGCTTTTACCA CACTTACAAAACGATACCC
EST26900 7	39 A G ---	---	TACTTCAGTTTAAGGCAAAATTCACACAGAGACTGTCTC/JAGJGAGACGGGCACAGAACCCAGACACC GTAGAAACACCACCACCATGCATGACGGGAAGCAGAG
EST27152 1	101 C T ---	---	CAAAGGATTTTATTTGTTCCCTAAAAGTAAATCTAGAAAAATAGCAACCCACTGCAAGAAGAGTT CTATACTAAACATTTTCAATCATCTCTCTCTC/JTTTACATGGTGTACTCTTTTCATGTACACAT CATCGGAAACAGACTGA
EST27504 2a	33 G A ATTT	GCTGGTGAT GCTACTGTAAT G	TTTTTGCACTTTGCAACAATTTAATAATTTATC/JAJCATTACAGTAGCATCACACCAGCAGTCAAT AATGCCACTTTAGGCAAAAGTCTTTCAAGTATTTCTGTACACATTTCTGTTAACAAAGAACCCATACATT GGTAAATTCATTCT
EST27662 4	51 C T CTCCAGTCTTG C	TTATGGAAATG GCTTATGTAAC C	ATCTTAAAGGACCATTAGAAAAGGCCAGTCACATCTGTCTCCAGTCTTG/C/JAGGTTACATAAG CCATTTCCATAAATCTATAGCCTTCTCTTAGAGTAAACACACACTCTTGTTTAGGAATGTTT
EST27788 3	100 A G ---	---	ATTTTATTAGGCGGTACAATTCCAAGGTGGTAAGGGTGAAAGGAAAGGCGAAGGCGAGGCAAAATACAT TATTGAGCTGAAAACAACCTTTACATTCGAAGGAC/JAGJGCTTCCAGACAAGCCATGTAGAACCAGCAT GCCTTGGGACTGTGTGGAT
EST27828 1	58 G A AGAACCCAC C	GTGCAGAGAGG TACTCCAAGTA C	TCTTCTAAAACCTTCTCTGTGTGGATCCAGTGACGTGGAAGTCATCAGAACCCAC/JAJGTACTT GGAGTACCTCTCTGCACCAAGATAGCTGGCTGATTTTCTGCTCAGTCACAAATTTTACTTGAA
NI-18369	58 G A ACAATC	TCAAGAAGGCC TTATCCATTT	TAAAAATTTGAGATACATTCGCCCAATGTAACAATAAATTTCAATCTGTACACACAATC/JAJAAATG GATAAGGCTTCTTGACAAATTTCTGCCACCTCCGTTTAAACGATCAGAACTCAATCTTATCTC
EST28036 4	37 T C ---	---	TCCCGCTTCCAAAAGCTTTATTGGCAAAATATGCTCTAT/JAJAAAGAATGATCAATCCTGTTGCCCTCT AAGTCAATGGAATGAAGAGCTGTGTCCAGGGACACACCACCGCCGTGCTGAAGGAGACTGCTGTTGTG TCCACCTCTTATTCATAG

EST28483 7	31 T A	GGAGTAAAG GTGTTCTTCT TTAAA	TTTCTCGCAT TATTTTATAC CA	CATTTGGAGTAAAGGTGTTTCTTCTTTAAAT/ATAGGTATAAAAAATAAATGCGAGAAACATTAAC GGAGAATGTACAGACAACAGACGAAAGACATGAGTTTGTCTGACTGTGACACATTTGGTGAAA AGAAATGGTCTAGTAATCGTTACAGGATTCGGTGATGGGCCCTCCCTGTCT/CJGGACACTGCCAACCC CACAGCTGGAGGGGCACTTAAGGCACGTCATTTTGATTAGA TGAGCCTGGGGAGAAAGACACAGAGAGTGAAGTGCTATTAGTTACATCATACCAAGTGTACATACTG TT/CJACATGATTTATGGCTGTTGATGTTGACCTCAATAACCTGGCTGATGTATGTGTCA
WI- 17730b	68 T C	---	---	
WI- 17730a	39 A C A T T	GACCACAGAA GTGAAGTGCT	TCAACAGCCAT AAATCATGTG	TGAGCCTGGGGAGAAAGACACAGAAAGTGAAGTGCTATT/CJGTTACATCATACCAAGTGTACATA CTGTTACATGATTTATGGCTGTTGATGTTGACCTCAATAACCTGGCTGATGTATGTGTCA
EST29041 5b	53 G A C A	GGAACAAACA CATTAAAGCAT	GGTATTGTTGA TTTGAGGAGTT AGC	TACTCAGAAATGTGAGTTTCATGAGGAACAAACACATTAAGCATCATTTGTCACT[G/A]GCTAACTCCT CAAAATCAACAATACCTTTATTTTAGCCATGAAAAAC
EST29128 4	58 A G	---	---	CTTTAGAAAGGACACCAGTCTGTTGGACTTAGGGCTACCCCTATTCACGAGGTGCC[G/A]GTTATTT TCACTTGGTTACGTTCTGTAAGGACCGTTTCCAAATGAGGTTACAGTCACAGGTTCTGAGCAGACATGA GTTTGTCTGGGGACACT
EST29912 3	103 C T A C A G G C T	TCTGCCAGCTT ACAGGCT	GCGTAAAGTGTC TCATTCTTCTG T	ATTATTAGGTATCTGCTGTTGGGGTGGGGAGATTGTTGAGATACTGCAACAGACACAAAA AGCAAAGAAAGAAACATTTCTGCCAGCTTACAGGCTC/TACAGAAGAATGAGACACTTACGCATG GCCATGATACACAGCAGTGA
EST29936 3	121 G C	---	---	TATTGGTATGCTTAGGGAAGATTCTGATTTAGAGATATTAAATCTTAAAGTTAACTCACCATGAAA TTTAACTTCTGTACTGGCTTCACTGATGAGGCAGTAACTACATAGGGATAAA[G/C]JAGCTCAGTA TCTGGAATCATGCTTCTCTG
EST30223 2	99 A G	---	---	AAATAATACATCATGGGGAATGGGATATCCATCCCTCAAGCATTTATTTCTTGTAGTTACAAGCAA TCCAAATTACACTCTAAGTTATTTTAATATTC[G/A]GGATTAAATTTCTTCTAGTTCAATCTTGGGA GG
WI- 16260b	86 G A	---	---	CTTTCCATTGGTATTAAACCTGCTAGAGGTTCTTTGTGAGGTGGATTCAAGAAGAAAAAGACCCAGA GTTTCACAATATAGGTAGC[G/A]ATAACCCAGGCTCACTTTCCCTTCCGTGAGAACTTCGTGGGAC
WI- 16260a	59 G T A	TGAGGTGGATT CAAGAAGAAA	CTACCTATATT GTGAAACTCTG GGT	CTTTCCATTGGTATTAAACCTGCTAGAGGTTCTTTGTGAGGTGGATTCAAGAAGAAAA[G/T]ACCC AGAGTTTCACAATATAGGTAGCAGTAAACCCAGGCTCACTTTCCCTTCCGTGAGAACTTCGTGGGAC
VI-17835	30 G A T G	ACAGGAAATA TTGTGCTTTCT	TGGGTATAGG AAACAGGC	AAGAGAAACAGGAAATAATTGTGCTTTCTTG[G/A]GCCTGTTTCCCTATACCCCAATATCATAAGAAAT GTTGTGCTTCTATAATGTTACAGCTTCAAATTTCTTTGCTTAATCAATCCAAATGAATTACCTGAATT TTCTCCTCTTGTTCAAAA

EST31951 4	87 C T	GGGTGTCCAG CCAACA	CCACCAAAAT CACCTOC	ACAGCCATTTATTATGTTTACTTGGTAATATCAGAGACTGAAACATTTTCACTCTTTTAGCAATGACA TCGGGTGTCCAGCCAACA[C/T]GGAGGTGATTTGGTGGGAATTCATTATCACAATATTCT
EST31968 8b	95 T G ---		---	CGAATTTGTCTCTCTATTTTGTGATTCTAGTAATCCTAAAGATTTGGGGGGGGGTTACTATAAGT GCATTTTATAATGGGATTTTCTGCTT[G/A]ACTGCCCACTGATTCTTACATGGGAAAGGTGCAAAAG ACAGTGGTACTGCTCC
EST31968 8a	75 T C T	GCGGTTACTA TAAGTGCATTT	TGTAAGAATCA GTGGGCAGTT	CGAATTTGTCTCTCTATTTTGTGATTCTAGTAATCCTAAAGATTTGGGGGGGGGTTACTATAAGT GCATTTT[C/A]ATAATGGGATTTTCTGCTTAAGTCCCACTGATTCTTACATGGGAAAGGTGCAAAAG ACAGTGGTACTGCTCC
EST32063 2	103 C T ---		---	TCCATGGATGAACAGAGCGTACCATGCCACATCCCCACTTCCCTCCGACCAGATGTCGTGGCCAGAGC TGGCTTCCCTTCCAGACCTAGCTGGCTTGTAGT[C/T]GTTTCAGGCCCATTTGAAATAGCAAAACGCAC AGTCATGTAGCACTCGG
WI-16303	65 A G ---		---	AAGGCTTCCAAAGCATTCAAAGGCACITGGGTGTGGTCTAAGTTTCTGGTCACTGCAGCCCC[C/A]G TTCTGTATTAGGGAGCACCCCAAGCCCAAGTAACAATATGGTTCTTGCAG
WI-17800	29 C G	GGGAGCACAA GAGAACTCA	TTTCTACAAT TAATCCCAGTC TT	TGGACATGGGAGCACAAAGAGAACTCAC[T/C]AAGACTGGGATTAATTGTAGGAATATTTACACAG TTTCCACAAGTCAGAAAGAGCTAATCCCAACCCTCTGTATCTGGAACATACACTGCTGCCATTTTCTGC CCATGAAGGGAAATACCC
WI-17857	34 T G C	CCTAAAGCTG GGATGACTTTC	TGGCTTAGGT TCTACTTGATG T	AAACTGTCAITTCCTAAAGCTGGGATGACTTTCCTT[G/A]TTCTACATCAAGTAGAACCTAAGCCAAT TCAGAATCAGAATCCTTTTGTCCATCAAAATCCAGCTAACTCCAAGCTGAATTAATGTTCAITCT GTATCTGATGTAGTTAACCATGGCCTGTCATGATTATATTGCTATAAGGAAGGGAACAAATCTTTA TAGTGTCCAAAGATAAATTAATCTTGGTTTAAATCTTGGCAGCAAGCAAAATA[T/A]CCGACTGAC TGCTCCTTAGTCTGTGATC
WI-17860	121 T A	TTTGCCAGCAA AGCAAATA	ACTAAGGAGC AGTCAGTCGG	CAGCAACCTTTTTTTTGTATAGCCTACTTCTCAAAATTTGT[T/A]TTTGTGTGATTAGTGACAACG GGGGAATCTACAATGCTCACATCACAGTAACTACCA
EST33301 4c	43 A T	TTTTATAGCCT ACTTCTCAA	CCGTTGTCACT AATCACACAA A	GAAAAAAAAGTCAAAATGTTCCCTTTATGGGTGATGCCACCATGATTGCCTCACACAAGCATGATC AATGCCACGAGA[G/A]ACTGGATGCCAAAGAGTATGG
EST33301 4b	80 G A ---		---	GAAAAAAAAGTCAAAATGTTCCCTTTATGGGTGATGCCACCATGATTGCCTCACACAAGCAT[G/A] ATCAATCGCCACGAGAGACTGGATGCCAAAGAGTATGG
EST33460 1	63 G A ---	AGCGTGGTTTT CAATACTAAA	CTGTATTTATT GTTAAATATTT GCATTGTT	CTATCCAAAAGATATTTATTGCAGCGTGGTTTTCAATACTAAACA[G/A]TTGTAACAATGCAAAATATT TAACAATAATACAGTGAATTAATAAGCCATGGCATAATCCAGTTGATGTAATACTTTGCAA

WI-17904	50	A G A C A C	AAAGCATGAC AATAAAATGA	CGCTTATGTTA ATAGTAATTCC CG	CAAGTGAATATTGATACATGGCTGACAAAGCATGACAATAAAATGAACAC[A/G]TACGGGAATTAC TATTAAACATAAGCGATAACATCAAAACATCTGGTAAATGCAGTTAAACAAACAAACACAAATGA
EST34149 5	69	A G A T	TGCCAAATAC TCAAGTGTGA	AACTACTAGCG AGAACAACATA ATAAAATC	GTTTTCTTTGAGTGACACAAGCTTGTTCAITTTTGGAGAAAATGTGTGCCAAATACTCAAGTGTGAA T[A/G]GATTTTATTAGTTGTTCTCGCTAGTAGTTTGGTATTCTATGAAAAAAGCAGCTAGTTTCAGC TTACAAATCACACAAGT
EST34343 8	95	C A ---		---	TGGGAAAACATAAGTTAACTCAAGAATAATATCCAGTCTTTATGTTACTAAAAACATTGTAATAGTGT TTTTATCAATGATGCCGAGGTCACTGCT[C/A]TACAAAGATTAAAGAAACTTACCATCAAAACACTTC CAGTGCATCAA
WI-17982	98	C T C C T A A A A G C	GGACCATATG ATATATAACT	CAGAAATTATG TGATAATAACT CCTTCC	GGTACACAATTTTAAATGGAAGGAACACAGGTATGTTGAAAGAACATCAGTACAGCTGGAGACAGG GAGGGACCATATGATATATACTCCTAAAAGC[C/T]GGAAGGAGTTATTATCACATAAATTTCTGGGC GCTACAGAAGTTTTTCATCA
WI-17993	118	A C ---		---	CTCAGTAACTCCGGTGTATAATCTGCCATTTATTGATTTATTTATGATAAAAACACCTCTCATTTGTGA AAAACAGCTAAGGGTGACATCTCCAGACCCCAACCACTGTCCCTGTAATG[T/A/C]CTGCTGAGAGTCC ACATTTTGGAATCCAAT
WI-17996	84	A G A G G A A C A G	GTAGAGCGCA AGGGAACAG	AGGCACATGGG CAGC	CCCATCCAGAAACCCAGTGTGATGGTGAAGCAGCATGAAAACAACATCTCCCAGGCCTCGCAGT AGAGCGGAAGGGAACAG[A/G]GCTGCCCATGTGCCTGTCTCTAAAGACGCCACCCCTCAGGTTGATGT CACCTGTGGGAGACCGGGT
WI-17136	33	C G ---		---	ATTCTTTATAAAAACACCATGTCCCTAAAATG[T/C/G]ATTCAACATATATGCACACCTTCGATGTAT AGGACACTGATCAAAAAGACAGAGAAATGTGTCCCT
WI-18041	24	A C ---		---	GCCACTGAAAAAAGGTGCTCTCC[A/C]GTTTCTAACTCCCTGGACTCCCTCATTTGGAACCTGAAGCTC ACAGATGTTTCAGCTGGACTAGTTTAGACTTTGCTGTATTTTAAAGGCAGTGTGATGCTCCAGGAT TCAATACTTAATCA
EST35164 8a	57	A G C C C C	CACAGCCCTGC	CCCTCTGGATT CTGAATCTCAA	TTGAACCAAGGCCCTAACAGATGACTCAGCAGGGCCCTTCAAGCACAGCCCTGCCCC[C/A/G]TCTTGA GATTCAGAAATCCAGAGGGTGCTCAGTCCCTGGTTAGGTCCTCTGTGACATTTCCCTCTTG
WI-18052b	67	A G ---		---	AGCGAATGAAAATGCTACATAGGCTCCCTGAGTTCTTTTCATGTACGAATC[T/C]TGGTTACACATCTT A/GJACAGCAGAGCTGCCTGAGGGAGGGTTGTGTTTAAATGTCGTATGCATGCTCAGCACAGTGTGGC ATGGCCCCATCCATGCTTT
WI-18052a	50	T C A T C	CCTGAGTCTT TCATGTACGA	CTCAGGCAGCT CTGCTGT	AGCGAATGAAAATGCTACATAGGCTCCCTGAGTTCTTTTCATGTACGAATC[T/C]TGGTTACACATCTT AGAACAGCAGAGCTGCCTGAGGGAGGGTTGTGTTTAAATGTCGTATGCATGCTCAGCACAGTGTGGC ATGGCCCCATCCATGCTTT
WI-18054	46	A G A G A T A A A A	GGGAGTGGG	CGTCACCTGC TTCCA	CTGTTGTGCTGAGAACAGAGGGGTCAAGGGAGTGGGGAGTAAAA[A/G]TGGAAAGCAGGGTGACG CATGCAGGAGTCCAGACAAAAGACGGGTGATTTGCTCAGGTTGGTAGCAACAGAGGTAATG

WI-18064	54	G A A G A	GTAGCTGCTA AGCTGTATTTC	CCAGTGGTATG ATTGTGACATT C	CAGTGCCCAATCATCTCTCAAAACCCTGTGGGTAGCTGCTAAGCTGTATTTTCAGA[G/A]GAATGTAC AATCATACCACTGGGGAGAAAGAGTAAGCACAGTGTCTATTAGGTGCCAAACTGGGGTACCTGGGAG GCAGAAA
EST35347 2	97	T C A A	GCATAAAATT TTCCAGTTGGT	CCCTCGGCACC TGCT	TTTAGCACCAATTCTTAGTGGAGCAGGATTCTTGATCATGGGTGGAATTTTGTGTCTGGGCTTCAT GGGATGCATAAAATTTTCCAGTTGGTAAGT[C/J]AGCAGGTGCCGAGGTCTGGATCAGAAAAAAAGG CAGGCA
WI-18070	28	A C G T G T A T	AACCCACTAC TTACTCAGAGT	AAAACATAA AGAAACTGGA	AAACCCACTACTTACTCAGAGTGTGTAT[C/J]ATATTAAACACATGAAAGATATAATCTTAGAAAA ACCTCCAGTTCTTATTAGTTTGTATTTCTGTACTCAGAAAGCATTTTAGTTGCAAGGATATAA
WI-18080c	80	C T ---	---	---	TGGCATAAAGTTTGCAAAATATCAATATCAAACTAGTCTCTCTTTTGTAAATTAATCTACTATGCCGTG TTTGACTTTTAT[C/J]TCTTATGTAAATTGAAGCCAAATGCATGTTAATCCTTCTCCTTTGGTGTAT
WI-18080b	65	G A ---	---	---	TGGCATAAAGTTTGCAAAATATCAATATCAAACTAGTCTCTCTTTTGTAAATTAATCTACTATGCC[G/ A]TGTGACTTTTATCTTATGTAAATTGAAGCCAAATGCATGTTAATCCTTCTCCTTTGGTGTAT
WI-18080a	41	T C A G T C T C	GCAAAATATCA ATATCAAACT	CAATTTACATA AGAGATAAAA GTCAAAACA	TGGCATAAAGTTTGCAAAATATCAATATCAAACTAGTCTCTCT[C/J]TGTAAATTAATCTACTATGC CGTGTGACTTTTATCTTATGTAAATTGAAGCCAAATGCATGTTAATCCTTCTCCTTTGGTGTAT
WI-18086	63	G A ---	---	---	GTGGGCATCCTATAAAAGCAGCCATGTGTGAACAAATGATATGCACAGAAAGCATCTTCT[G/A] TGGCTTTGTACACGGTTTCTTCAAGAGGAAGATGACTCAGCCCTCCAGCTTCTGCAGTCTAGC TTAGGAGAGGTGTTGAA
WI-18115b	71	C T ---	---	---	AACTACATAGTATGGTGCCTGGCTTAGAATCAATGGGTAAAGCCCTTAGTGTACCTTTGGTATCCC TTC[C/J]TTTGGTATGAAAGACAGACCTCTGCTGGAGGACTCATTACAATGTAAAGAAAGGGTGAG TCAGT
WI-18115a	70	C T T T	TTAGTGTACCT TTGGTATCCC	AGAGGTCTGTC TTTCATACCAA A	AACTACATAGTATGGTGCCTGGCTTAGAATCAATGGGTAAAGCCCTTAGTGTACCTTTGGTATCCC TTC[C/J]TTTGGTATGAAAGACAGACCTCTGCTGGAGGACTCATTACAATGTAAAGAAAGGGTGAG TCAGT
WI-18136	78	A G ---	---	---	TTTTGAGAAGCACTCTGTAAGGCAAGGATGCATTCAAAAAATGGCTTTGAGGATTAATCTTCTCTTTA GGTAAATTTGC[G/J]TAAGAACATAAAAGCATTTTAAAGTCCACTGCCCTTAGAAACT
WI-18169	115	A G G A G C T C	CCATCTTCCG	GAGTCTGCTT GTGCTCCA	GGCAAAATATTTTACATCACACCTGGAATCTGCCCAAGTCTTCCACTATGAAGCAATCGTAGAG TGTGCAGGAGGAAAGGTGTATCCAAGCAGCCATCTTCCGGAAGCT[C/G]TGGAGCACAAGCAGA ACTCGGTGGGTAGAGTGA
WI-18190b	26	G A ---	---	---	TGAAAGAAGTCGACACAGCGGACACT[G/A]TCATAAGTGAACAAAGGATGAAGCTAATCATGAG GCAAGCTCCCTGGAGAGACAGGGACAAATCAAGAATGAGCTGGAGACATTAATCCTGGCGA

WI-18190	62	G A	---	AAATATATAC AACACTCCCTT	CGTTTACCAT TTGTTAAGCTT	---	TGAAAGAAGTCGACACAGCGGACACTGTGCATAGTGGAAACAAAGGATGAAGCTAATCATGGA[G/A] GCAAGCTCCCTGGAGAGACAGGACAAAATCAAGAAATGAGCTGGAGACATTAATCCTGGCGA
WI-18181	100	A C	CAGATC	AGCAGAGTTC CTGCCCTC	TTG CCTCCCTCTCT	TTG	GACAGTGAAAAACATTGAAAAACACAAAATACAAACAAACATTAGGAACAAGAAATGTGTAAATCCAA TGIGTGAAAAATATATACAACTCCCTTCAGATC[A/C]CAAAAGCTTAACAAATGGTAAACGTA TGIGTTCTTGAAC
WI-18215	78	G A	CTGCCCTC	AGCAGAGTTC CTGCCCTC	CCTCCCTCTCT OCCCC	TTG	ATTTCATACAAGCATTTCTGAGTACAAACTAGGGACAGGTATTTACAAAAACAATAAGAGCAGA GTTCCCTGCCCTC[A/G]GTGTGCGGGGGAGAGAGGGAGGATTTCAGCATTTGGTGAGTATGTTAATT CCCTCAAGTTAATCCCTC
WI-18232	60	T A A A	AGTTGTGATT GTGATACACTT	TGGTGTGATT GTGATACACTT	AAATAAAGGT TTTCAGGGGTT	C	CATTTCCGAAAAATCTGATAGTTAAAAATATCCCGTCTGGTGTGATTGTGATACACTTAAG[T/A]GAA CCCCTGAAAAACCTTTATTTTGAATTTGAAGTTTGTCTCAGAAACTGGGCAGAACTTTTCACATTCTG AC
WI-17892	76	T C A C A	GGAAAACTTG AGTTTGAGATC	GGAAAACTTG AGTTTGAGATC	CACAGAAGTG AATAGACTAGT	CACAGAAGTG	TTTAAAAATGCTTAGATTTTCTCAGTATTTTATCAATAGTGTGTAAGCTGGAAAAACTTGAGTTTGAG ATCACATA[T/C]CTGTCTCACTAGTCTATTCACITCTGIGGGCATTCGGCAGAAAGTGGC
WI-18242	30	G A	AATCGTAACA	CCCCAAATGTT AATCGTAACA	GCTAACACTTC TACTGTAAACAG	CCTTC	AATATCCCCAAATGTTAATCGTAACATACT[G/A]GAAAGCTGTTACAGTAGAAGTGTAGCAAAAAAT TGGATGCCACAACCTATCTCACCATTCTTCAAGCAAGTGAGGGTCAGAATGTTTCTTGCCTATATC TGCAAAAGATCGAACAAG
WI-18266c	119	C T	---	---	---	---	GCATCAGACATCACCACTCCTGAAAAAACCTTCTACAAGAAATTGAAAAGTGTGCAGGACCTAATA CTGAAATAGGAAATATGGACTATCTTCAAACTGCACAAATGATGCATGAATC[C/T]ACATTTGAGAC CCGCAACTCCGAGGTACCT
WI-18266b	124	T C	---	---	---	---	GCATCAGACATCACCACTCCTGAAAAAACCTTCTACAAGAAATTGAAAAGTGTGCAGGACCTAATA CTGAAATAGGAAATATGGACTATCTTCAAACTGCACAAATGATGCATGAATCCACAT[T/C]TGAGAC CCGCAACTCCGAGGTACCT
WI-18266a	97	C T	TTCAAA	AAATAGGAAA TATGGACTATC	TTTCATGCATCA TTTGTGCA	TTTCATGCATCA	GCATCAGACATCACCACTCCTGAAAAAACCTTCTACAAGAAATTGAAAAGTGTGCAGGACCTAATA CTGAAATAGGAAATATGGACTATCTTCAAA[C/T]TGACACAAATGATGCATGAATCCACATTTGAGAC CCGCAACTCCGAGGTACCT
WI-18312	73	A G A A	GGTGTGAGCTA TTGTTATTCA	GGTGTGAGCTA TTGTTATTCA	GGAGAAAAGG GAGCAGAAAG	GGAGAAAAGG	CTGAGCCTCTGGATATGTGTTAGTGTCTATCATTAATTTTGGAAAGCTGTGAGCTATTGTTATTTC AAAT[A/G]TATCTCTGCTCCCTTTCTCCCTTTTCTGGGATTCTCATTTCTGCATGTGTTATA
WI-18330b	66	A/G	---	---	---	---	AAACATCTACAGCTGTCTTAGGCCATCCTGTAAAGAAATCAGGATAAGAGCTGAGGAACAAGAGGG[A/G]TATGTAGGCAGTGAGTCAGGACTATGCAAAACCATAAAAAAAGAACATAATTTTGTGTTGAT TCACA

WI-18330a	49	G A A A G A	TCCTGTAAGA AATCAGGGAT	AGTCTGACTC ACTGCCTACA	AAACATCTACAGCTGTCTTAGGCCATCCTGTGAAGAAATCAGGGATAAGA[G/A]CTGAGGAACAAGA GGGATATGTAGCGAGTGAGTCAGGACTATGCAAAACCATAAAATAAAGAACATAAATTTTTTTGTTGAT TCACA
EST37564 5	85	T C A G A	AAATTCAAGC CATCTACAAA	CTATGGAGGCC TCAATGAGA	AAATTAGTTAGCCATAACAGGCTGGAATTGCTGGTTAGAATACTGCATGTTATTTAAGCTAAAATTC AAGCCATCTACAAAAGATT[C/T]CTCATTTAGGGCTCCATAGGCTGCAAAACACATCAAAGGCATTAC TGTAAGTGGAGAGGACTGAG
WI-18327	104	G A T T	AACAGCTTT CGTTAGGCTAG	CGCATACAATG GCTCAGC	CAAAGGGATTTTATTACCTACAACAAGTAAGGAGGACAGCTGGGGCAGTTTCCCAAAGCAGTACCTC CCAAACAATGGTGAAACACAGCTTCGTTAGGCTAGTT[G/A]GCTGAGCCATTGTATCGGGAGGCAGA GT
EST37624 6b	102	G A ---		---	GTGCAAGAGCAGCTAAACACACTCAATTTGCATGAACCTCCAAATACGAACAGTGCAAGCTGATGG CCTGCAGTCTCTGCCGTGCTGGCTCTCTGGACG[G/A]TTCAATCTACATGGCTGCTTTGCGTCC TCTGACCTCCCCATTCC
EST37624 6a	58	C T ---		---	GTGCAAGAGCAGCTAAACACACTCAATTTGCATGAACCTCCAAATACGAACAGTGCA[C/T]GCTGA TGGCTGCAGTCTCTGCCGTGCTGGCTCTCTGGACGTTTCAATCTACATGGCTGCTTTGCGTCC TCTGACCTCCCCATTCC
WI-18357	89	C G G C A T C A A	CCCAGCCCTTA GCATCAA	AAGACTCAA AGACTGAAGAT GA	AATGTTTTAAAAGTCTACCGTGTGAGGTGCCATGAAGCCAAAGCCCATGGAGAGACATTTCAGA TAATCCCAGCCCTTAGCATCAA[C/G]TCATCTTCAGTCTTTGAGTCTTCCAGCCAGGTCCAAGCTT GTGGACCAGAGACAAGCC
WI-18012g	117	A G ---		---	TTTTATCTGGTCAAGCTCCTTCTTAATGGCCTGAAGGTCACTCTCCTTTTCAACTTTCCAGACTTGGAAAG ATCCCGCTGTCCACTCTTAGAATTGAAGCCACTTTTGCCCTT[C/G/A]TGAAGTGTTCCTGATACA CGCTGACGTTTCGAGGG
WI-18012f	113	G A ---		---	TTTTATCTGGTCAAGCTCCTTCTTAATGGCCTGAAGGTCACTCTCCTTTTCAACTTTCCAGACTTGGAAAG ATCCCGCTGTCCACTCTTAGAATTGAAGCCACTTTTGCCCTT[C/G/A]TGAAGTGTTCCTGATACA CGCTGACGTTTCGAGGG
WI-18012e	112	C T C C C T T	GCCACTTTTGC CCCTT	TCAGCGTGAT CAGGAAACA	TTTTATCTGGTCAAGCTCCTTCTTAATGGCCTGAAGGTCACTCTCCTTTTCAACTTTCCAGACTTGGAAAG ATCCCGCTGTCCACTCTTAGAATTGAAGCCACTTTTGCCCTT[C/G/A]TGAAGTGTTCCTGATACA CGCTGACGTTTCGAGGG
WI-18012b	46	T C ---		---	TTTTATCTGGTCAAGCTCCTTCTTAATGGCCTGAAGGTCACTCTCCTTTTCAACTTTCCAGACTTGGAAAG AGATCCCCGCTGTCCACTCTTAGAATTGAAGCCACTTTTGCCCTT[C/G/A]TGAAGTGTTCCTGATACA GCTGACGTTTCGAGGG
EST38390 4	75	A G C T C T G C A T T G	GCAAAAAGGA CTGATTAATAA	GCTAAAGTCAG CTGATTAATAA ACTTAA	CATATCATAGCCAGATCTACAACCCAGAGTAATCCCATGGTTATGTTACATGGCAAAAAGGACTC TGCAATTGTTAGTAAGTTTATTAAATCAGCTGACTTAGCATTTAGCATTTGGGAGATTATTCTGGAT

:ST38512	91 T G	TGACGATGCC	CAC TGCAC TCT	TAATAAAAC TGACCCCAATTGGTAAACTGTGCTGGACTGAGAGAAACAATGAAAAATCTGTAAT ACCTGATGACGATGCCAATACTTCGTTG/GCTCCAGAGTGCGAGTAACTGTTATAGCC
:ST38519	24 C T T	CCTGCACCTCC TAAAGATCT	TCTGTTAGGAC TTGGGGA	CCTGCACCTCC TAAAGATCTTTTTC/TTC CCCCAGTCTAACAGAAATGGTATATCTCTCTGGAAAA AGATGAACGTCATCAATGGAATTGCTGCTCTCGTTTCAGCTTTGATTTTTTGTCCTTGAGAACCTTG TCCTCCCTGCTGATTT
:ST38575	66 T C A A	GAACATCCCA TGTTCTGTGTT	AGGGAAGGTA GTATAACACAT	AGTGGTCAAAATGTAAAACTAATGGGGACACCAAGCCTCAGGAAGAACATCCCATGTTTCTGTTTAA T/CJCTCTTATGTTATACTACCTCCCTTCCTTCCTTATACACATAGATTTTCTTAAATTTGCAGC CCA
:ST38616	101 C G C T C	CCTGCTCGGC	GAGGAATGGAT GGTGGC	OCATCTAGGCAGGCTACCTGAGCTCTCTGTGCTCCAGAGTGGTGCTCAGCCCCGGGGCCCCGTGG AGTC TCCGCGGGCCCGCCCTGCTCGCCCTTC/C/G/GCCACCATCCATTCTCTCCAGGGG
:ST38652	59 T C C A T T T C A A	TCTGAAC TGGG	TTGCAAAAATG AAAGGAAAAA	TATAGTAGGTACTTCTTCTGCTGCAGCAGGAATTAATTCAGTCTGAAC TGGGCATTTCAA/T/CJGCGTG GTATTTTTTCTCTTCATTTTTCGAAGTAAAAAATCAT
:ST38654	42 T C G T T T A C A	AATGGTCATTT TAATATATCA	CAGTGAATGGTC CTTAATCTTCT ATC	CTCAAGCTGAGAAATGGTCATTTTAAATATATCAGTTTACATA/T/CJAGATAGAAGATTAAAGGACCAT CACTGAGGTACATAGCTCAGAGGCAGAGTTAAGATTTGGCCCCAGGAGTTGGTTCCAGCATATA GGATCCTCACTACCTGGGACAGCCTGAGAAGGGACATCCACCAAGACCTACTGATCTGGAGTCCCA CGTTCCCC/JAGJAGGCCAGCGGGATGTGTGCCCTCCTCCTCCCACTCATCTTTCAGGAACACGAGG ATTCTTGCTTTCTGGAAA
:ST38759	86 A G G T G A T A T G G	TGCTCCCTGA GGTGATATGG	TCACCATCGTG GACTTAAGG	TGACCTTGTTATCTTCACTAGAGGGGAGAAGAAATCACTACCTCTTTTGATGCTCCCTCACTCTACTTGT CTCCCTGAGGTGATAGG/JG/CCTTAAGTCCACGATGGTGACCTAAACTCAGTTTAAATTTCTTGCC TAGCAGCAC
:ST38775	40 T A C	AATCAATAGG AGAGGATTGG	GGCTTTGCTCT GAATTCAAA	GACTCTCAACCAAGAGAAAAATCAATAGGAGAGGATTGGCT/JATTTGAATTCAGAGCAAGCCCT CTTACTGAGAGGTGAGCCCCAGCCCCCTCCAAATGCCCTTTCATGAGTTAGGATCTCCTAAGTGGTAC AAACAAACCAACATGGTGG
:ST38815	91 C A C A	TGTTTATGAGA ACCCATTACA	GCTGACTGGCA CATGCTTT	CACCCCATATTTGACCAAGGGATGAAGCCTAGCCATGCTCTTTCACTTATGTGTGTTTCATTCAACAAG TGTTTATGAGAACCCATTACACA/C/A/AAAGCATGTGCCAGTCAGCAGATTCTGTAATAA
:ST38858	98 C T T G A C	CACGAGTAAA AAGAACTCA	GGAGCGAGTCC AAGGAGAA	TCCTTACTGTGCTTACAACCTTCTCCAAAGTTTGGGGTGGTTCCATATTTGTTATTGTTATTATTA TTCAACACGAGTAAAAAGAAACTCATGAC/C/JTTCCTCTGGACTCGCTCCTCTCCCAATCTCGAT ACCGACTGCAC TGTG
:ST38865	72 T C T G T G C A T G C	GCTGTAGAAAT TGATGATG	GGAAGGACGG AGGACACAG	CCCTAATGGATTTACAGCTCATCTGAGTCTCTGCTGTGTTCTCTGAGGAGCTGTAGAATTTGTGTCG ATGCT/CJCTGTGCTCTCCGTCCTTCCCAATAGCACATATGCAGGGCAGGCAAGAGCATGCTGGA TTTGCTTAGTTGTTAA

EST39236 0b	57 C G G T C	TCATCTGAGA ATAAACTTCCT ATTAACA	CATTATAGGTA CTGAGTCATAC ATTAACA	TCCTTTTATTCATGATTTGTTTCATCTGAGAAATAAACTTCCTGTCTAAATTTCCAA[C/G]ACTATGTT TAATGTATGACTCAGTACCTATAATGAGACTGGAAATATATTACCTGGCAAAATGAATGAGGTGTCTC TTT
EST39294 4	63 G T G G A T G C C	CCTGAAACAG GGATGCC	GCACAAATTAA ACATAGTACCG AGAA	CAACAGACCTTTGGTTTGAGCTCACCTGGTGACAGGAGACTCCTACCTGAAACAGGGATGCC[G/Γ] TTCTCGGTACTATGTTTAAATTTGCTGAGCCAGCAACCTCGAGTTACCCGGCCTTTTACCCACGCC AGCTCTGCTTGTCTGCAT
EST39366 2	72 T C		---	AGAAACATTTCTGTCTGATCAGAGGAAGATGTATGTAGAAAAATCAGAATCTGACTGAATTCCTAAA ATCTAT[C]ACACTGAGAGGAAATGAAAAAGAAATGTTTGATAAAGCTTTTCCCTGACTCTCA GAGGGTTCAGA
EST39371 9	86 A G C G T G A G A G G T T	CATTGGATTAA GCGTGAGAGG	TGATTTGAGAC ATTTCACATTT TT	AAAAAGCTGTAGCTGGCAAGTCAAAGTTTATTTATGTGTGTAAATTCCCAGTTGAGCATTTTTTCAT TTGGATTAGCGTGAGAGG[A/G]AAAAATGTGAAATGTCTCAAAATCAAATGCTTCTCTTCTAAAGATTA GACATTGCCCAACCTGC
WI-17177	23 A G		---	ACAAGTGACATATCCAAACCAACC[A/G]TCCATCCCACCTGTGCCCTATTCTTCTGTGTTCTTT AGAGCCTTTTCAGCTATTTCTGTGAAGCAAACTGCACGAAGGCTCCCCGTACTCTCCCTGGAA G
EST39428 8	31 C T A T T T G A T T	GCTCCCCACA TATTTGATT	GGTCCCTTATG AAGCCACC	AGGTCCTGGTTGCTCCCCACAATTTTGATT[C/Γ]GGTGGCTTCATAAGGGACCCAGGATTCTGCATT TTCTGGTGGGCTAGGTAATTTCTGTTGCCCTTTGGTCCACAGAGCACAAATTAAGAAGATCAGGTCT GGCTGTTGC
EST39430 2	45 A C C	GGCAGAGGAA TAACTGATGTT	CAGGGGTGGG GTATTG	AATTTAGCAGAAACAATGAAGTTGGCAGAGGAATAACTGATGTT[C/A/C]CAATACCCCGACCCCTGA CCAGTACCTTTTCCCTCAGGCCAGGCTCCGGTGGAGGATGTCTGGG
EST39446 7b	117 C T G A G T A A	CTACTGACAT AGGGACTTCA	TCCTGGAAAC TGACATAAAC	AAAGCCCTGTAAACTGAAGCTAGACAACGTCAACTTTTGGAAAGAAAATAACAGGAACCTATTATAT ACGTAATCATTTCATACCTGCTACTGACATAGGACTTCAGAGTAATA[C/Γ]GGTTTATGTCAGT TTTCCAGGATTGTTCTCCC
EST39465 2	80 A G G G T G C C	AATGCAGGAG GGTGGC	CAATCTCGGC CCTCT	ATGGTGTCAATTAGAGGGGCCACAGGGGATGGGGAGTAAAAAATAACATAAACGAACTGAACAGAAA TGCAGGAGGTGG[C/A/G]AGAGGGGCCAGATTGGGTTCAGGGCAGAGAGGTGGAAGACCAG
EST39501 0	81 A G A A C A T T A G	AAAGATTCTCT GTAGACATCT	CAC TTGCAATT CTGAAGCT	TGCTTACAACCCATAACCATAGGCCATGTGTTTCAGACATTCTTGACCAAGCCTAAAGATTCTGTAG ACATCTAACATTAG[A/G]TAGCCTTCAGAAATGCAAGTGCAGTTCAAGTCAAAACCAATTC
WI-18387b	84 A C		---	CACAAAATGGGACTGCTGAAGAGTGGACAGTTGGACCTTACTTTGGTGACCCCATACATTGTGGTCA CATGCTTTAGCCATAC[A/C]CATGGTAACATTGACTATGGAGTCTTGTGAAAGTGTAAATGTGGGATG GCTATGTAGACATAAAGA

WI-18387a	57	A	G	CCTTACTTTGG	CTAAAGCATG	GCTAAAGCATG	CACAAATGGGACTGCTGAAGAGTGGACAGTTGGACCTTACTTTGGTGACCCCATAC/C/ATTTGTTG
EST40601				GTACCCCAT	TGACCACAAA	TGACCACAAA	GTACATGCTTTAGCCATACACATGGTAACATTGACTATGGAGTCTTTGTGAAAGTGTAAATGTGCGGATG
9	78	A	G	GGTGGAACCT	TTCTTGAAGA	TTCTTGAAGA	GCTATGTAGACATAAAGA
				GAAACAC	AAGCGTC	AAGCGTC	TCCAGGATGGTTTATCCAAAGCTGTGGACGGTGAACATTAAAGACGAAAGAGGTGACTCGCGTGGA
				AGTGATCAC			ACCTGAAACAC/C/GTACGCTTTCTCCAAAGAGGGCTGTGGGATCAGGCCACTCAAGG
EST41935	32	A	G	ATCTTCAGGAT	GCACACCTTC	GCACACCTTC	TCCATTGATGATCACATCTTCAGGATAGGT/C/ATAAACAGTGTGAAGGGTGTGCTCATTTTCTTC
				AGGT	ACACTGTTA	ACACTGTTA	AGCTGTGAGTAGAGGAGTCTCCCGAGAGTAGCAGTTGTTGA
EST43091	28	C	T	CATTCTGGTCT	AAACTGATTT	AAACTGATTT	ATGTCATTCTGGTCTTTATTTTGGACA/C/TTGTAGCATGTTTTAACAAATCAGTTTTTCATAGGCAA
				TTATTTTGGGA	GTAAACATG	GTAAACATG	CCTTTGAAACATCAAAAGAAATACAATATATTTTTCACAAATTTCTCACTGTAATICA
WI-18420c	108	T	C	TTCCATTAAAC	AAATCTCAGC	AAATCTCAGC	AGAGAGACAACAAGAAGAAATAGGGGAAATGGGAAGAACAGAGTGAATTTAAAGCAAATCTTGGA
				AGGAAGTTT	ATTGCTATAAG	ATTGCTATAAG	TTGAGATTCCATTAAACAGGAAGTTTCTCAAAAAAATCAAA/C/CTTATAGCAATGCTGAGAA
					C	C	TTTCATAGGTACTTCATGGGA
WI-18420a	38	C	T	GAATAAGGGA	CCAAGATTGC	CCAAGATTGC	AGAGAGACAACAAGAAGAAATAGGGGAAATGGGAAGAA/C/TTAGAGTGAAATTAAGCAAATCTT
				AAATGGGAAG	TTTAATTTAC	TTTAATTTAC	GGATTGAGATTCCATTAAACAGGAAGTTTCTCAAAAAAATCAAAATGCTTATAGCAATGCTGAGAA
				AA	TC	TC	TTTCATAGGTACTTCATGGGA
WI-18425b	101	T	C				AGCTGATCAGCTGTGCTTACTGTGTTTATGTGTGGCCAGGGAAGCCAAAGATCAGACACCCTGTC
							CTAGACAGATTCA/C/TTGCACACAACAACAGAGGTGGGGTCAACACGGGGGAGAGCCAAAGAC
							TAGGGC
WI-18425	81	A	C	CACCTGTCT	OCTCCTGTTGT	OCTCCTGTTGT	AGCTGATCAGCTGTGCTTACTGTGTTTATGTGTGGCCAGGGAAGCCAAAGATCAGACACCCTGTC
				AGACAGATT	TGTGTGCA	TGTGTGCA	CTAGACAGATTCA/C/TTGCACACAACAACAGAGGTGGGGTCAACACGGGGGAGAGCCAAAGAC
							TAGGGC
WI-18449	129	C	T	CTTTGGCTCT	CTCCCTGACT	CTCCCTGACT	AAATTGAGGTCCGGTGGAACTATAAAAGGAAGAAAGAGAAAGTAATCAAGGGAGGCCAAAGTG
				AAGTGGGACT	GTATCCAGA	GTATCCAGA	GGAAAGCTGATTGCTGATCTAAGCTGTCTCCAGTCTCTTTTGGCTCTAAGTGGGACTA/C/TTTC
							TGGATACAGTCAGGGGAG
WI-18457	120	T	C				ATCGCTTCATTGAAGCCTGCTTAATTTCTCTCAGTCAACTGGTGCCCCCAAGACATTATTTTATTTCTT
							AAATGTCCAATATCTGCCCTGATGTGTGTTTGTGCACATTGGGGCCACAGT/C/AAATAGGCTAAA
							AGGCAGTCCACCTGCT
WI-18462	39	A	G	CCACAATGGC	TTTAGGCTTTG	TTTAGGCTTTG	GGTGCTATAGCTGCTGTACACCACAATGGCAGAGGTGA/C/TTAGAAACCATCTCAAAGCCTAAA
				AGAGGTGA	AGATGTTTCT	AGATGTTTCT	TATTTACCATACATCCCTCACAGCAAAAGTTTGTCTCGGTTTAGGGACTCCATTGAG
WI-18476	60	C	T	GGTGGGGTGC	GCACGATGGGA	GCACGATGGGA	TGAGGACGTGTGACAAGCTCCAGCAGGGGTGGGGCCGGCTGAGGGTGGGGTGGGAGG/C/TTGGT
				GAGG	GTGAAC	GTGAAC	CACCTCCATCGTGGCCCTGGCCCTCCCTCCACTACCCACACCTGGCCAGTCCACGTTGAGGT

MI-18491	109	G A	AACAAATGGT AGGTGGTATT AATACTATT	CGTGTGCATTT TCITGTAATCC	CTAATGAGATGAATACATGGAAGCGCTTTAGCACAGTGCCTAAAAACACAGTAAGTAACCAACAAAT GGTAGGTGGTATTAACTACTATTATTAAATCCAGAAATGAC[G/A]GGATTACAAGAAATGCACA CGT
EST50757	79	C T	GAGCTCGAGG CTGCTTCT	ACCCTTCAACC GACC	AGCCCCCTCCACTCCACTCTGCTTCCACAAAGTCGGCTCCCGAGAGCTCGAGGCTGCTTCTTTTATAT GTGACGGGC[C/T]GGCGGGTGAAGGTCAGAGA
WI-17675	103	T C	GGACATTTGG ATGTGACTT	GGGGAACCAAC CAGG	GATCTTGGAAAGCACTAGAAACTAAACATCTTCACCAGGTGCTGAAGAAAAAGTGCTTCGTTTTAAAT TGCCAAAGCAGGATGTGGACATTTGGATGGTACTT[C/G]CCTGGGTGTTCCCATAGATTCAACCAT TGCTCTAATGGTGCTA
WI-16543	67	G T	AGATAAACTA CATTGGGTTT TGG	GATTCATCATT ACAGGGACTT	GATCCATTACCTAGGGTAAAAATTCCTCTGAATGTCAAAACAAAGAGATAAACTACATTTGGTTTGGT G/TJAAGTCCCCCTGTAATGATGAATCAAGAATCCTCAAGTCTGCTTGCACCCCATTTAATACGTATT TTTGTTAAGGCTGAAGTT
WI-17687	107	C G	GCCAAAAAGG TTGGGAA	TTACTTTTGT CCGACCAGCA	ATCTGAGATGGAAGAGTTTCATCCCAAAACCATCTCCCTGACCCAGTCCATGGAATAATTGTC TTCCACAAAACCGGTCCCTGGTGCCAAAAAGGTTGGGAA[C/G]TGCTGGTGGTACAAAAAGTAATT G
WI-17690b	79	A G	---	---	ACAACATGTGAAAGAAGATATGTTGCTTTACTCACAGTGAGGCAATTTTCTAGCTGTTGATT GGCTTCCCTATT[A/G]GATTACAGGACCCATAACTCTTGTTCTCACTCATCTGCTATGCTGCTG
WI-17690a	63	G A	AGGCATTTTC TAGCTGTGTTT	CAAGAGTTATG GGTCTGAATC	ACAACATGTGAAAGAAGATATGTTGCTTTACTCACAGTGAGGCAATTTTCTAGCTGTTT[G/A] TTGGCTTCCCTATAGATTACAGGACCCATAACTCTTGTTCTCACTCATCTGCTATGCTGCTG
EST51717 b	128	C T	GCGGAAGACA GTGAGCTGTT	TTGAGGCAATA ATCCAGCTC	GATCCAATCTCAGTGCTTAACATCATCCAGATTATTCTGAAGTGGAACCAACCCCTCCGACCCAA TGGAACATCACCCACTACCTGGTTTCTGGGAGAGGCGGGAAGACAGTGAGCTGTT[C/T]GAG CTGGATTATTGCCTCAAA
EST51717 a	39	C T	---	---	GATCCAATCTCAGTGCTTAACATCATCCAGATTATT[C/T]TGAAGTGGAACCAACCCCTCCGACCC CAATGGCAACATCACCCACTACCTGGTTTCTGGGAGAGGCGGGAAGACAGTGAGCTGTTCTCGAG CTGGATTATTGCCTCAAA
EST53012	97	C T	TGGTCACTTTG GGGC	GGCTCTGCCCA CGGC	TTCCAGGTTGACAGGTTTATTCCACCCCTTCCATCCCATGGCCACCCAGGAGGAGGAGACAG GTGTGCTGGAGTCTGGTCACTTTGGGGCC[C/T]GGCGTGGCAGAGCCCACTGGGTTTACATTCTCTGT GGGCAGGTTGGGACAC
EST53349	96	A G	TGTTGAAAGC AGTCACAATG TAC	CATCTGGATAT CTTGTACATT TT	AAACTGCAAAATAACAAAAACAGAAAGTCCAAGAGGCTAAAGTCTAAGCTATAATTACACATG AAGTATATGTTGAAAGCAGTCACAATGTAC[A/G]AAAAATGTGACAAGATATCCAGATGTTTAA
EST53389	74	A G	GGAGACCTGC AGAACCTAAA CA	GGCCTTTCTAA CAATAAATGCT C	TTTCGAAATGTCTCCATGACTTGACAGACTGAGAGCCAGCCAGCCAGGAGACCTGCAGAACT TAAACAC[A/G]GAGCATTTATTGTTAGAAAAGGGCAAGTCTTACACTCAATAAGGTTTAAACATGAAC ACATTAAAGGGAGATGGCC

TIGR- A003P30	117 C G ---			ACAAAGTTCAAAGGAGAACTTCCTTTGTTTTAATGCAGCTGTGCTCAGAAGCCCTGTGATTTCCTAGGA AACCATCTGGGTTTAGCCCATTAGAAAAATGCAGTTTAAAGCAGTGTCA[C/G]ACTGGCTGCCTGAA GGTACCCCTGGAGATACT
TIGR- A004S34	156 C T A			GCTTGCTTTTATGTTTAGGTCGGGGGAAAGGAGGGGCTGACAAACCGCAGACATCTGGACACCAGC AAGGGTCCAGGGAGGTTTGCAAGAACTTCCTTTGCTCTGGCTAACAGTCTGTCATGTGACAATAGCCA AACCTCCTCATTCTCTATAAA[C/T]CTTTAACAAAAACAGTTAGCTGTTTACAAAAACAGTTAGCTGTT TACATG
TIGR- A004T44b	97 A C ---			AACAACAGTGTAACTCTTTAACAGGGGATGTTAAAGGTAAGTACAGGAAGATAAACCAAAATGAT TGAGTATGATAAGAAATTTTGTCATGGCGATT[C/A]AAATAGAAAAACCTATAAATGTAGAAAAAGCA GGTCTGGACTTAGCAAGAAACAATATGACTTAGCAAAAGAAACAATATAG
TIGR- A004T44a	69 G A TGA			AACAACAGTGTAACTCTTTAACAGGGGATGTTAAAGGTAAGTACAGGAAGATAAACCAAAATGAT TGA[G/A]TATGATAAAGAAATTTGCATGGCGATTAAAAATAGAAAAACCTATAAATGTAGAAAAAGCA GGTCTGGACTTAGCAAGAAACAATATGACTTAGCAAAAGAAACAATATAG
TIGR- A004V08	60 T C GGCATTCTCTT			CCTACAATCCTATAATATTGCAAGGGTTGGGAAGGATGCAGGAAAAACAGGCATTCTCTTAT[C/G]GCC TTTTGTGGGAAGGATCAATTTGGTGCATGCACCTTAGGGGACAATTTGGGCAGTAGCTGTCAAAATTTT AGTAGCTGTCAAAATTTCAA
TIGR- A004V26	125 A G ---			TCTAGCTATAAGACCAGATTTTAAATATCTAGATATAGAATTAATCCAGAATAATCTATTGAATTGA CTGATTACAAAATGTTAACAGCTGGATAAACGGTAAATATGCATTATCTTCACATGA[A/G]AAGGT TTCAGTTTATAAATGCTTAAATACTGTATCTATTGCTTAAATACTGTATCTATTGG
TIGR- A004V28 3	29 A G CGATCTC			CCAGGCTATAATGTTGGTGCGATCT[C/A]GCTCACTGCAACCTCCGCCCTCCAGGTTCAAGCAA TTCCTCCTGCCTCAGCCTCTTGAGTAGCCGGGACTACAGGCACCCGCCACCTAACTAAATTTTTG TATTTTITAGTAGAGACATTGTATTTTITAGTAGAGACAGG
TIGR- A004X20	25 T C GA			TAAGTTTTCCCTTCCTCTGTAGGA[C/G]GTCTCCATGTTACAGTCAACTATAAAACATGGCTCATGT TCACCTCGGGCTTCGCTCAGAGGAGTTGATATTTGGGAAGTGGTACCTTTGTTCTGIGCTTTTCA GACCAACCGCTCTCTTCATTTCTCAAGGCTTCCTTCCAAAGGAGTTAAATCATCATGTCCCAATC ATCATCATGTCCCT
TIGR- A004X30	26 T C CCAC			TTTTGAAATCTTAGAGTAGAACCCAC[C/G]ACTCTAGTAATACTGTAAATAAAATTAATAAGTTTT AAACACTTCCATAAAGAAATTAGGGTGCCCGAGCTCCTTGATTTCCCCCTAGGGATAAGATATCCAT GTTAGGGATAAAGATATCCATGTAC
TIGR- A004Z04	102 T G ATGCAAAACT			CACGGTATATGCCTTATATAGGTATATATACAGATCGTACACAATATATTTAACAGTTTGACATG GGGTCCACAGTACCTTCATTTGGGTATGCAAAACT[C/G]TTGCTTTCATGAAATTTCTAAATTAAGG ACTGTTGCTTCTTCATATTCATATGACATTATACAAAAATACAGTCTCTTTAGTGATTTAAGACGTC TCTTTAGTGATTTAAGACTG

TIGR- A004Z19	85 C T	GAGAACAACT GCAGCATTTT	AAGATGGTCAT CGGGAAGA	TAAGTGAGACAAGATTATTGGAGGAGCTTGACACCCCTCTCTGCCCTAGCTTGAGAGAACAACAGTGC AGCATTTTTTCTTTTTC/TCTCTCCGATGACCATCTTTGGGCTGGCGGCCAGGCCCTGGGTGTC TCCCATATCGCTGTCTTTAGTGAGACTGAGGATCTGGTATAGGAAACAGATC
TIGR- A004Z42c	89 C T	TTGGGGGAGGT AGGAGACT	CAGGGCTGCCG GTCC	GTCTTAGCAGAGGAGATAAATTTGAGGGACAGCCCCCAAGGCCAGGTAGCCTTCAGGGGGGGGCA GGGTGGGGGAGGTAGGAGACTC/TJGGACCGCAGCCCTGGCTCCAGCTTCATCATCTGTGTCTCTT CATCATCTGTGTCTTC
TIGR- A005D17 c	81 T C	---	---	TATGGACTGTGTAGAAATATGATTTGGACAAAGGGTATGATCTAATAGTAATAGACTGAGAGGGG AAACCCAGCAAGGCT/CJGTCTAGATCTCTTGGCCTCTCTGTGCAGGATTCCTTCTCTGGGCAC GGGTGGGACCCCTCTCTGGAATGGTATCTTACGACAGTCAAACCTTACGACAGTCAAACAC
TIGR- A005D17 b	79 G C	GGGAAACCC AGCAAG	GAGAGGCCAA GAAGAATCTAG AC	TATGGACTGTGTAGAAATATGATTTGGACAAAGGGTATGATCTAATAGTAATAGACTGAGAGGGG AAACCCAGCAAG/CJGTCTAGATCTCTTGGCCTCTCTGTGCAGGATTCCTTCTCTGGGCAC GGGTGGGACCCCTCTCTGGAATGGTATCTTACGACAGTCAAACCTTACGACAGTCAAACAC
TIGR- A005D44	97 G T	TTAACATTATT GAACCTAAAA CTGTTACAC	TTGCTATTAT TTAAAGCCAAC AAAA	CATCAGTAACATATACACAATTTGGICATCAACTGAACCTTGCCTCCAATATATTCTATACAATACTT AACATTATTGAACCTTAAACCTGTTACACT/G/TJTTTGTGGCTTTAAATAATAGACAATGATTTTTG TCTATTACTTAGTGATAGACAAGTGAATTAATTTGTAGACAAGTGAATTAATTTGTTAC
TIGR- A005E31b	27 G A	---	---	GGAGTTCAAATTTATAACCAGGCCCTCTG/AJCTACAGCTGTACTGGCTAGGCAAGCTTTCCAGAC ACAAAGCCACCTGCCCTGCCATGTGGATAGTACTCTTGGCTGCTTGCCCTACAAAGCCACTTCTAT TTCATACCAATACCTTCTATTTCATACCAATAAG
TIGR- A005E39	182 G C	---	---	CTCAGTGTAACAACTTTGTTTAGGGAAAAAATAAATCCAATGGATATATGGGAAGAGAAGTG CCAGGCTGGATGGTGTGCTGAGACAGAATGACCCCTTGGCTCCTTTATTTGTTCTTTTCAACAGGACC CCACAGATATTTGCGGTATGTCATGAGGACTGGGATGTC/TCTATTG/CJGGATGCTTCTATTTT
TIGR- A005E42a	42 A G	AGTAAGGTTA CTGCACCTTAC AGAG	CCTAAATCAGG GGAAATTGAG	GCTGAGTTTGTATCTTAGTAAGGTACTGCACCTTACAGAG/GJCTCAATTTCCCTGATTTAGGA AGCGATGCTAATGGGTATTGCATAGGTGTAAGTATAAAATGTTGATTTAAGAGAATCCCAACAG CTTGGTAAAGGCAGAAAAATAATGGTATAAGGCAGAAAAATAAATAG
TIGR- A005E46	76 A G	CACCTGACTCG GTGCTTTAC	COCTGGCTGTG AGGTAATGT	ATGACAATGATGATAGTATTAGCCTACCGTTTGTAAAGCACCTACTGCGTATCAGGCACCTGACTCGG TGCTTTAC/GJTTACATTACCTCACAGCCAGGGTTGGCAATGGTCAATTTTGACAAATGGTCAATTTT ACAC
U20979	24 C T A	GCAGGGGTGA CGTATGTAGA	GGGGAGGACAC CCTAAGC	AGAGCAGGGGTGACGTATGTAGAA/C/TJGCTTAGGGTGTCTCCCCACAGAGCAGATACTTGAACCG ACTCAATTCCTGTGTAAAGAGCAGCTTTGTCCCTGCTTACGGACCTCCCCAAAGTGTGCAGAGTTCTAT ATAGGATGCTGGATTAGTCTTTGATATTGTAAAAATTCCTCCCAAGAGCCGCATATGAATCTGCC

X57830	106	G C T	AGTGAACCA ACGATCATAT	CATTGACAGAA TAAATGAGGC A	GTGGCAACTGTGGAAGGCACACTGAGCAAGTTTTCACCTATCTCGAAAAAATATGAGATTGGA AAAAATTAGACAAAGTCTAGTGGAAACCAACGATCATATCTGGC/TATGCCTCATTTTATTCTGTCAAT GAAAAGCGGGTTCAATGCTACAAAAATGTGTGCTTGAAAAATGTTCTGACAGCATTTTCAGCTGTGAG CTTTC
X74070b	72	T G T G	CTTTTAAAGAA ATTTTGTTTA TGGATC	GGGCTTAAAAA TATTAGAGATC TAGATT	AACCTGAAGAAGTTACTGGGAGCTGCTATTTTATATTATGACTGCTTTTAAAGAAATTTTGTATTATG GATC/TG/GJGATAAAATCTAGATCTCTAATAATTTTAAAGCCCAAGCCCCCTTGGACACTGCAGCTCTTTT CAGTTTTTGTCTTATACACAATTCATTTTGCAGCTAATTAAGCCGAAGAAGCCTGGGAATCAAGTTT GAA
Z48804	44	C T	---	---	ACTGCCGAAGTGTAGCGGCCCCCAACCTTGTCTCATCACCAAGC/TJTAGAGCTTCTTCCCGAAGGG CCTTTAGGATAGGAGAAAGGGTTTCATGCACACACGTTGTGAGATGGAAGAGCCCCCTCCAGACCACT CTACAGCTGCTCTAGCCTTAGTTGCCACTAGGAAGTTTCTGAGGCTGGCTGTAAGTAAGTGTAAAGG TCCA
D28513b	133	A G	---	---	ATGACCAAGCCACACATTTAGAACTTTGGCTGCCCTTGGAAAGTCCAGAGCTGGATCTCTCAGCTCC CGCCCCAGAGGGTCAAGCTTTGGACATGGCTCACAAGCAGTTTTTATTGACTGCATGAATGC/A GJTGCGTGCAGCATGAACCTTGTTTAAATCAAGAGGCTTACATAATTTTAAACCAGTTCTGTCTTC AGCTGTACATA
D29833b	85	A G	---	---	CCACTCCATCCTGATGCCCCAAGTTATCCACAGCCTCCTCCCGACCAAGACCCTATCCACCTGGACC TCCATTTTCCCTGTAA/A/GJTTCTCCAACGTGATCCTACCCCTCCCTACTCCTGCACCCCAATATGAA CAACTGCAGCAGGTGCCACCAACCAACCAACCAAGACACCACTACCCCTTGTAACCTACTGCTTCTGCTAC
D29833a	21	A G	---	---	CCACTCCATCCTGATGCCCCA/A/GJTTATCCACAGCCTCCTCCCGACCAAGACCCTATCCACCTGG ACCTCCATTTTCCCTGTAAATTCCTCAACTGATCCTACCCCTCCCTACTCCTGCACCCCAATATGAA CAACTGCAGCAGGTGCCACCAACCAACCAACCAAGACACCACTACCCCTTGTAACCTACTGCTTCTGCTAC
D31762	82	G A	---	---	CTCCCTGCCTCCTCCTCCTGCTGCTGATGCTCCGCTCAAAACAGCCGAAACCTGCTTGGCAATGGGG GAGGGGGGCTTCG/AJCTTTCCCTCTCTGCTTGGCTTCCCTTATCTTCCACAAACCAATCTCAATAAA GCCAAAAATCTTCTCTTCTCCCTCAGGCCACCTCCTGCTCCTCCTGCTCCTGCTGCTGGCTTTT CTGGA
D37931	64	T C	---	---	ATTATCGGAGTGGTTGACCTTACACTTACTCCTTAAATAGCAGTGAGTAATGCATTTGAGCTG/T/CJ CCCAGGCTCTGTCTCCTCAGCTCATTTCCCTACTCTTTTCTCTATATACTCATCTTATTAATACATT GCACCAAGAGATATGGAGACATAAACCTGTAATGAATGAGGCTGGGCTTTTCTGTAAATAGCTTCC TTT

D63807	101 C T ---			CAGCAGGACTTCAGTGTAGTATCCCTGCCTTCAGTCTCTTTAGAAATCACATCTGTGTCAATCC ATTGTTAGAGGAGTGATTTTCCTGTTCCA[C/T]GAAGAGGAGACTTTTGTTCACAATTTGGATCAC AATGCAGAGGAGTCTGTCTCCCTCCCGTCGGCTCTCGGTGCTGGAGGGTGACCTGTGCCAGATGAC TGGGAACATGCGTGTGACCTC[T/C]ACAGCTACCTCTTCATGGACTGGTTATTGCCAAACAGCCACA CTGTGGGACTCTCTTAACCTAAATTTAAATTTATTTATACCTATTAGTTTTTATAATTTATTTTGAT TTCACAGTGTGTTTGTGATTTGCTCTGAGAGTTCCTCCCTGTCCTCCACCTTCCCTCAGAGTGTG TCTGGTG
D90145	21 T C ---			ATTACACTCTCAAAAATTTTGGTGTGTGTTTAAGTACTTTCTTATTTATGAGCCCTT/C]GAGGA CCAGACATGTTTATCAAGCCCTTATATACCATCTAAT
EST14035 1a	59 T C ---			GCATTTTAAAAATTCACATTTGAATCATTATTACTATTATTTATGATGTTTACATAACAATTCAGTATCAT ATG[C/T]GTAGATTTACAGATGTAGTCTGTCATCTAGTACCTTATCT
EST16904 7	71 C T ---			ACAGACTATCGCCAACTTATAATGCTTAAACTTTATGATCAATAGTAATAAATTACA[C/T]GAGATA TTCACACTTTATTATAAAATAGGGTTTGTGAAGATGATTTTCCCAACTGTAGGTTAACAT
EST21863 9	57 C T ---			TTTTAAGTACCAGAGGCACTGCTGGAACAGGATGAAAACTGATACACC[A/G]TTACTACTTACTC TTCACTCTTCAAACCTGATCCCTAAAGACTTCTACTTAGCAA
EST21885 6	49 A G ---			GGCTGTAAGTAGAATCAAAAGGTTAAGAACATTTTATGCACCTTATCCACAAAACATTTACTGAGCATA CTAGGTGCTGGG[A/G]TGTGACAGTGAAGCAAAAAACACAA
EST22623 3a	80 G A ---			ATTTAGTGCAAATGACAAAGCCCAA[A/G]AGACAGAGGATCAAAATAGATTGAAATGTATTACC TTCTCATAAGTATACGAAGTTTAAACACAGTATGGGAGT
EST22644 2	26 A G ---			AAAATGATTGAATTCAGCAAGTACATTTATGATCTATCTACATTTGTTAAAAACAGCACTAAAAATAA AAATTTTAAAAATGATTATCCATTATTACAG[A/G]AAATGTGAAAAAGATGGCTTTTAAACCC
EST23587 1	98 A G ---			CCTCATTATTAAAAAGACGGACATAAAAA[T/A]TATACAACAAAAAACCCCAAGTCACATTTTCAG GAGTAAAAAACTAAAAAGTCTGATATGAAAAATATGGTGG
EST24246 7	31 T A ---			AAAGATCTGGCATTATTCACATCATCTAAATATTTTGTAAATTTTCCATGAGTATTTTTTCA TGTCGAAGCATTTTAACTATCATTTTAGCGTAAATACC[T/C]GAATAACCCATAGTTACAGAAATTGG GTCTGTGTAACCTCAAT
EST24308 3	106 T C ---			TAGTTTAAATTTCTGAACCTTTGGCTTATAAATTTTCTCAACTT[A/G]CATTTAAAAATGTATCAAT GCACCTTCTTCAGTAGTACCACATGAAAAATATAAACCTCGTTC
EST24435 6	45 A G ---			CTTGAACCTCTGGTCTCAAGTGGTACGTCGCTCAACCTCCCAAAATGATGCGATTACAGGCATAAG CAGCC[G/A]TGCTGACCCACATTTCTTTATCCGATCTGTTGATGGACATTCAGGTGTTTC
EST25089 6	73 G A ---			TATTGTTGCATTATCAAAATGGTTA[T/C]JAGTTTTCAATTAACATGTAATTGATTCTATGTATAAA ACAGCTTTGAAGTTGTAATGTAGTTTCCAAATCGTTAGTTAATGCTACATT
EST25089 6	25 T C ---			

EST33508 1a	36 A G ---			AAAAACATGCTATTTGAACAAACTTTTTTATAAAGA[A/G]TAAGTTGACTGAAAAAGCAGTTTTAAAT AACATCAACTCACAAATGACTTTTAGAAGCCAAATAA
EST33863 4	77 C T ---			ACAACATAGGACTGGTTATCTTGGTTTGAAGAAATATGTTGCCACTTCTATTGTTTTAAAAATGA TCATTTAA[C/T]TCTTTGAACACAGCCTGAATCCCCC
EST34739 3	97 T A ---			GAAGTATCCTCCAGTGGCAGGAACCTGAAGACTCCAGATCAACCAGGTGGACCTTTTCGTGATGA GCTGATAGCTTCTAGGCTGTGGGGAACCTT[A/G]GGTGCCCTTACAACCTCACTGCGAATTTCT TGTTGGCCTCATAAACA
EST34792 6b	104 A G ---			ACCTGACTGCTTTAAAGCTCTTTGTAAAGCTGACCGTAGCACAGATCACGTGGCATCCACTATCAATA CTCATAAGTCTAATTTATCCTCAGGATGTTCCCTGA[A/G]GTATTCAGGAATCTTAGTCCTATTACA AAGATTTTGTGCTGTG
EST34835 9b	93 T G ---			GGAAATGTTCCCTTTGCAAAACAAGGTACGTTTATTCTGCAACTTAGGAGATAAAATGAGATTTCTG TGGGAGTCTATGTTGCTTTCTGGT[G/G]GGCCTTAAAGAAACAGACAAAATTTGTGCTAAAGAT
EST34835 9a	82 G A ---			GGAAATGTTCCCTTTGCAAAACAAGGTACGTTTATTCTGCAACTTAGGAGATAAAATGAGATTTCTG TGGGAGTCTATGTT[G/A]TGCTTTCTGGTGGCCTTAAAGAAACAGACAAAATTTGTGCTAAAGAT
EST35230 0	93 G T ---			CACAAAGGTCCACTTACTTACATGAAGGAACATAAAGGCATGAGAAACAGTCATCTCAATAAATG CAAGACATGAGCATAAAGAGGTTCT[G/T]GCCTTTCCAGCGTTGTTATTACAGAGAGAAACCT
EST35337 9	33 C T ---			CTTTTCAAATTTTGTATGATGAGCATTTAATG[C/T]TATAAATTTCTGCTTAGGAATGTATCTGCT ATATCTCAGAAAGTTTGGGCATGTTGTTCCATTTTACTTAGTTTCAAGAACITTTTCAATTTTCATCT
EST35708 9	32 C T ---			CTGCCCCAAATTAACCTTTAGGCAAAATGGAAA[C/T]AGACTTACTGTATGGGACATTTTAAAAAG ACAGCTTAGTAATATGTTTCATATGCAGCGTGTGCTTCCCTCTCTGAGGTGGCACCTTCTCTGTTGTG ATGTGCAAAAGTGTGGCT
EST35747 9	51 C G ---			ATCCAGTGCAGAGTTGTAGCTGGAGACATATTTCAACCCACAAAGGCTCCA[C/G]ATGTTAAAAACGT TTCCCAACATCAACCTAATACAGTGACAGCAACACCTCCCTCCCTGCCCTTCCAGTAGGGTTGAGATT G
EST35751 9	89 C A ---			TGGTCCATTATATAAACTGAGGGAACAACGGTGTGACATGGCAGACATTTTATTTCAATGGAGA AGTTCCTCCCATGAAACCAAGA[C/A]CTTGCTCCTCATGATAAAGTGGAGACAATAAGAAAGCCAGGT ATATAATTAAGGCCTGTGA
EST36301 4	93 C T ---			CACCTGTTCAATTGGTTCACTGGGCTGTATCTGTGGGCTGATGCTCTACCAAGTGTCTCAGCCTACAGC AGTCAGGAGGCGAGCCATGGCCCTG[C/T]GCTGATGGAGCTTGTAATTTAGCCCCCAAACTGATCTTCA GAAAGAGGTACAACAAA
EST36519 2a	33 G T ---			GCCATCAGCCCCACAAAGACATGACTACCAACGG[C/G]GGCCCCCTTGCACCCCATCTGGCCTCAGCAC CTAAGACTGGACAACCTTTGTACCTAATGACCGCCCCACCTGGCATATACTGGCTGGCCTCTTCTCTGT CACAGGGGTCTTAGTCGT

EST36620 6	50	G A	---			GAC TTATTAGATAAGGGTTTCGGGTACCCCTCAAAGCTCTCAGGACTGG[G/A]GCTAGGGTTTAAGG AAGGCTATTTAAATATGGGAATAAAATACAAAAGGGCCACACCCGATGCAAAAGACTTT
EST36690 0a	89	C G	---			CCTGTGATGTCATGGTGCCTGAGCAGTCGTACTTACTATGCGTCAGACAGCTCACGTATGTCAGGA AAGGAAGTCTGGGATTCTC[A/C]GJAGGGGACATATCACACATATTCTAAGTCACTGTGTGACTCGG CTTGAGCAAGTCATTCA
EST36729 9	62	C T	---			GAGACAGAAGCCATCAGTTAAATGAGGTTAGGCCTCTCCTCTAAATATACTGATTGACAATG[C/Π]A TATTAGCCAGGTAATGCACITTAGCTACCTCGACAAATGCTATCAAGTGTCTGGAAGGGAG
EST36823 6	103	A T	---			ACTGTCTGGCCGATGATTGGAGCTTGAAAAAACTACCAATGCCAGATCTCCACCCAGACCAATTAG GTCAGTATCTCTGGGGTGCTATTCAAGCAACAATT[A/J]TCTTTTATGTTCTTAAGCTCATCATGAG TTAA
EST36987 4	126	C G	---			ATGATCGCTTATGTAAATTTGAGGGCGACATGGGTAATGGGAGATACCCACAGGACCTGTAAATATT TAAATAATATTTAACAGCTGATCAGAGGCTAAATTACAACCTGACATTTTGATGCAGTTT[C/G]GTTA GGGAATTAAGACAATGCAG
EST37054 3	88	T C	---			GGTCTACTCTTTCGCCAGGACGGTTTGAACTCCTGAGCTCAAGTGACCCCTCCACCTTGGCTTCC GAAAGTCTAGGATTACAGG[T/C]GTGAGCCACCACACCTGGTCTTGGTTTAAAGTAACCACCTGAA C
EST37269 3b	105	T G	---			AATAGTCTATGGCTACGGGCCCGTGGGATGTTAAAAATTTGGGATTTTAAATTAAGATTGTGAACATG CAAAACCAGCAAAATTTCTCAGCTTATATTTTGAAAGTCT[T/G]CAGGAGAAAAAATGGGGTCC
EST37284 2	93	G T	---			AAAAGACCTTTCTCAAGCAGTAAACTTTGAGCAGAGACTCAGATGAAGTGAAGGATGAACCCAGGAA GCTCTCTGGATAATGTCACCTCTAGGAA[G/T]AGTAAACAGGTTTAAAAACCCCTGAGATAGCAACCCCT CTTGGCTTGCTTGAGGAATA
EST37315 2a	90	A G	---			AGATGGGGTCTTGCTAGCTTGCTCGGGCTGAACATAAGATATCTCTCCTCAGCCTCCCAGGTAGT TGGAACATATAGTAGGAGTATCT[A/G]CCCTGCCCTGCTAGAACTTCAAGTTTGTATGGGCAAAATCCA CCCCAGAGGACAGGACAA
EST37374 1	45	C T	---			CCTGCCATGATAATGTTAAACATATCAAGATCCTCCTCAAACCTT[C/Π]AAGGGTGAAAAGCATACC ATTCCATTTTAGTTGAAATATTCCTTCACATAGCCCAACACATTTTTTCAAGGCACCTCTAGCTACTACA GGA
EST37376 8b	101	G C	---			GTGACATCATGTCTCTTCAATGCCCTTTCAATTAATAGTAGTTCAGCGCTGGGGGCTGAAGTCAGACT CTCTGGGTTCAAATCACAGTGTGTGCTCTGCA[G/C]GCTGTCTCAGGCAAGTTGCTGACTTCTCTG TGTCAGG
EST37376 8a	41	T C	---			GTGACATCATGTCTCTTCAATGCCCTTTCAATTAATAGTAGTTCAGCGCTGGGGGCTGAAGTCAG ACTCTCTGGGTTCAAATCACAGTGTGTGCTCTCAGGCTGTCTCAGGCAAGTTGCTGACTTCTCTGT GTCCAGG

EST37378 9	63 T G ---			ACACACAAAAAATGGTGGCAGAAAAATCTGGAAAGATTCTAAACCTCAATTCTGTGAAAAACIT/G JAACATGCCTCAAAAAAGAGGGGAAAAAACCTTACAGAAAAACACTGTGCTGACATGATTAGCTT
EST37452 4	46 G A ---			AAGACATAAATCTGCAATGAAATCAGTTATGAATATTAAACCTCT[G/A]CTTCTCAGGAGTGACAC TAATCATGGTCTGGAAGCTAGCCTATGCGATTTTAAACACCCCTTAAATCAATGACGTAGAA
EST37613 6	34 A G ---			CTAGGCATGGGGCTTTACAGTCATTTATTTACC[G/G]GTCATGAATTCATTAAAAACCCACAGCGAT ATAGCAATGAGCAAAACAGACCCCTCCCCAAAATCACCCCTGCGTTCAATGGATCTTCCATTCTAA
EST38025 4	56 T G ---			TTATTGAGTAGCTACACTGTGGCCAGAACTAAGCTTTACATGTTTATATCACCTTA[T/G]TTATCTCA ACAATCTTGAAGGGTGTAATTTTCCCGTCTTATAGGTGAAGACTCTGAGGTTTCAGAA
EST38068 6	57 C T ---			TCTACCAGGTCACCAAGTATCTGTATATGCTTTAAGTGGCATTTTCATGTCACTTA[C/T]JGCGATGG AAGAAGCTCTCCTTTTAAATCCCTAACTCTCTCTCTGGAAGACAGAACGTGCACAA
EST38420 6a	100 T C ---			TAAATCAAGGCCTCTTTTACCAAAACAAAAAAGGGAACAAAATACGATGGGAGAGG GAAGAGATGATGCCGAAGTGTATCCTGACTGAC[T/C]GTCCCTGCAGTGCCCATGGTCCCGTGCCT TATTCATTCTCCTCTCTCA
EST38950 5	25 T C ---			TTTATTGCAAAAGTAAGCAGCCGG[T/C]TGGTCCCTGGATTGAGGCTGAGGAAGACATTACTTCCTG CTGAAATACTTGGACTTACATTTGACACAGGCTAAAGTATGGGATGAGAGGGAACAAAAGCTT ACAAACAAAGAGCAGCCA
EST39053 5	90 T C ---			TTTTTGTACTCTGTAGCCAGTCATTAATCTGAAGGTTTAAATATATCATTTTATGGGATGAGATCA TAGTCTTTACACAAATGCTATG[T/C]AAACAAGTTACTGAATATTTTACCTCTCGTGAGTTG
EST39331 1	70 G C ---			TCCCTCTGCTCTAGCACTCAGACCACCAAGAAAGCCTGGAAGACCAGCCATGGAAGGAAAGTA TG[C/G]GTGTTTAGGGAGAGCTGGCACCTGGCCTCTAATCTTCCCTCTGCCATTGACCAGATGGGT GCCTTTGGATACATCACT
EST40544 7	31 C A ---			GTCACCATTGACCTTACATAGTGCCTCTAGT[C/A]ACCTATGAGGCACCTAGAACTCTATTGTACTTCT CACCTTATCACATTAGCTATCGAAGTTTGAAATTT
EST40548 4	37 T C ---			TTCTAATAGCATGCCCTGTGACAGGGAAACTAAGCTCT[C/T]CAAAATAACTGAAACTAAATCTGT AGATAAAATGCTGGAATTTGAGAAGGCACATGCCTTTTGTAGTTTTCTCCAGAAGGCTCAAGGTGTTT AATAATCTGTGGGACTCA
EST40549 1	42 A G ---			TGTTTCTCTAGAGAACCTGTGTGATACACTACGCATGCACA[V/G]ATAAAGTCACATCAAGACTAA TAATCTAAATGTTAGTTTGTACCACCATTTCTCACCTTTGAACCTAGCTCCCTGCAAAAGCACCTTCTA CCCTGCACCTTTGGGGAG
EST40579 1	81 A C ---			TGTGAATTACACATCAGTAAGGCAGTTTACAGAAATTTTCTCTTACCTAAAGTCTGTGCTATCTG AGCTGGTGGAAAA[V/C]GGACTTGGAGACAGCGATTAAATACGGAACAAGGCTCTTCCAGGAAG
EST40584 3	68 A G ---			TTGTATGGTTGTAGGAATTTGGGAAGAAATTATCTGTGAAGGAAATTTGCCACTGTAATGCACACCC A[V/G]TCTGTACTCCCAATATCCTATGTTTAAAGCT

51	G A ---	---	GATCAAACTGTATTGCCAGGCCAGCTCCTGAAGAACTGTGAACATGAAC[G/A]TCTCAGCCTAGA AGGATAATGTGACCTTCAATTTGCACACCATCCATTGCTCTTTCAAACCTAAGAGCCTCTCTAAGCTA GATAGGCCAAGGATTATT
134	T C ---	---	CATGGGAGTAATAAGAGCAGTGGCAGCAGCATCTCTGAACATTTCTCTGGATTTGCAACCCCCATCAT CCTCAGGCCCTCTACAAGCAGCAGGAACATAGAACTCAGAGCCAGATCCTTTATCCAACTCTCGA[T/C]TTTCCTTGGTCTCCAGTGGAAGGGAAAGCCCATGATCTTCAAGCAGGGAAGCCCCAGTGAGT AGCTG
63	T C ---	---	CTGAACCTCAGCTGCCCTACAAACTCCATCTCAGCTTTTCTCTCACTTCTATGTGAAAACTAC[T/C]C CAGTGGCTGACTGAATTGCTGACCCCTTCAAGCTCTGTCTTATCCATTACCTCAAAGCAGTCATTCCT TAGTAAAGTTTCCAAACAATAGAAATTAATGACACTTTGGTAGCACTAATATGGAGATTATCCTTTC ATTGAGCCTTTTATCCT
69	T C ---	---	TGAGTCTGAGCAGCAGTTGCAGCCAGGGCCAGTGGGAGGGAGTCTGGGCCAGTGCACCTTCCAAGGCO C[T/C]ATCCATTAGTTCCACTGCCCTCGTGTGACATGAGGCCCATTTCTCACTCTTTGAAGAGAGCAG TCAGTATTGTAGTAGTGAGTTCTGTCTATTGGATGACTTTGAGATTTATCTTTGTTTCTCTGTTGGA ATTGTTCAATGTT
36	T C ---	---	GCTATTTACATATCCCAAGCCCTTTAGGGCTACAG[T/C]CTCTTGTCTGGACCCCTGTAGGGTGCCA TTTGGAGTTCACAGCCTAGAAAGAAAGGCTTTGGCCCTGGTGTGGTGCATAGGCCTGTAATCGT AGCGCTTTGAGAGGCTGAGGCAGGAAGATAGCTTGAGCTCAGGAAGTTCGAGACAAACCTGGGCAAT GT
137	G C ---	---	GGTCCAGAAGCCTCTCAGCCAGGAGGAGCTGGCCCTGGAAAGGGACCTGAGCTGGGGGACACTGGC TCCTGCCATCTCCTCTGCCATGAAGATACACCATTTGAGACTTGAAGTGGCAACACCCAGCGTCCCCAC CC[G/C]CGTCGTGTGTAGTATAGAGCTGCAAGCTGAGCTGGCGAGGGGATGGTTGTTGACCCCTCT CTCCTAGAGACCTTGAG
123	T G ---	---	ACTTGAGAAGCAGAGCTGCCACCTTCTGGAGGCCACTGTGATGATGAGCCAAAGCAATTTGGAGCCA AGTTGAAGGGACAGGGCAACAAATACAGTAGTATTCTTTTGTATTTGTATATTTGTCGCTGA AGATCATCCCGAAGCAGGCTGGAGGTGCCGTGGGCTGTGTGCTGGGATTTAGTCTGTGCTGG GAG
173	G A ---	---	CAAAGTTGTCTCTGCCCATGAGCACCACAGTCAGGCCCTTGAGGGGATCTTCTAGGGAGACAACAGC CCTGTCTCAAAACTGGGTTGCCAGCTCCAATGTACAGCAGCTGGAATCTGAAGGCGTGAGTCTGCAT CTTAGGGCATCGCTCTTCTCCTCACACCACAAATCTGAAC[G/A]TGCCTCTCCCTTGCCTTACAAATGTCT AAGGT

L48728b	111 T C ---	---	AAGTGACAGAAAGCAAGATGGATTGTTCCCTATAAAAGCACATAGTTATGTTTACTGGTATCGT AAGAAAGCTGGAAGAGAGCTCAAGTTTTTGGTTTACTTTTCAGAAAT/CJGAAAGAACTTATTTCAGAAAG CAGAAATAATCAATGAGCGATTTTAGCCCAATGCTCCAAAACATCATCCTGTACCTTGGAGATCCA GTC
M18079	52 G A ---	---	GCGCAGTCCAAAATACAAATGGACAGAGATCTATATTGTACCAGAACT/GA/JTTTATTTCACC CCATCAAGTATAAGGTACTGATTGATGGTCCCTTTTATAAACATTTGGTATATTCCATTTCATGCCAA AGCAAAAGAAAGTAAAGCTAA
M19169	113 T C ---	---	TAGGGATCTGTGCCAGGCCATTGCGCACCCAGCCACCCACCTCCACCCCTGTAGTGTCTCCACCC TGGACTGGTGGCCCCACCTGGGGAGGCTCCCATGTGCTGT/CJGCCAAGAGACAGACAGAG AAGGCTGCAGGAGTCTTTGTGCTCAGCAGGGGCTCCGCCCTCCCTCTCTCTCTCTCTAATA GC
M21539	114 T G ---	---	TCACCTCGTTCCACAGCTCCACCTGCATCTTCTCATCAAAGCCATCCAGGGATACACAGGGAGCTTCT TTCCCTTAGCCTGTGATCTGCCCATGATGATCCCCGACAGCAAAAT/GJGTTTCTCTTCTGAGGCTG CCATGCTGCCACTGTCCAGGTGGAGACTGAGCAAGGAAGTCTCAGCTGTACCGGCTTTTCAGAGCT TCTCTTGGGTGC
M26041c	173 A G ---	---	CCTAGCATTATTTCTGGCCCCATTATCATATCCCTTTTCTCCTCCAAATGTTTCTCCTCTCACCTCT TCTGTGGACTTAAATTCGTATATCTGCTCAGAGCTCACAATGCCTTTGAATTTATTTCCCTGACTTC CTGATTTTCTCTTCTCAAGTGTACCTACTAAG/A/GJGATGCCTGGAGTAAGCCACCCAGCTACC TAATTCCTCAGTAA
M26041b	157 A G ---	---	CCTAGCATTATTTCTGGCCCCATTATCATATCCCTTTTCTCCTCCAAATGTTTCTCCTCTCACCTCT TCTGTGGACTTAAATTCGTATATCTGCTCAGAGCTCACAATGCCTTTGAATTTATTTCCCTGACTTC CTGATTTTCTCTTCTCA/A/GJGTTTACCTACTAAGAGATGCCTGGAGTAAGCCACCCAGCTACC TAATTCCTCAGTAA
M26041a	45 C G ---	---	CCTAGCATTATTTCTGGCCCCATTATCATATCCCTTTTCTCCTC/GJCAAATGTTTCTCCTCTCAC TCTCTGTGGACTTAAATTCGTATATCTGCTCAGAGCTCACAATGCCTTTGAATTTATTTCCCTGAC TTCCTGATTTTCTTCTCAAGTGTACCTACTAAGAGATGCCTGGAGTAAGCCACCCAGCTACC TAATTCCTCAGTAA
M63967	57 G C ---	---	TAGGCAGCTGTACAGGGAGGCCAGTCACAGTCCAGCAATTCACAAACCCTTGAC/GJCAATGCT TGCCAAGCTGTTTAAAGCCAAAGAACACCCCTTCTTTGTTCCAAATTAAGTCTTAGAAGAAACCCCA CAATAAAGCAATTCATC
M81695	34 G A ---	---	ACTTACTACCCCTACCTGTACAGGCTGACGGGA/GA/JAACCCTGCACCACCGAGAGAGGCTGGG ATGGGCTGCTTCTGCTTTGGGAGAAAACGCTTGTCTGGGAAGGGCCCTTGTCTTGTCAAGGTTT CAACTGGAAACCCCTTAGGACAGGGTCCCTGCTGTGTTCCCCAAAGGACTTGACTTGCAATTTCTACC T

U06641d	166 C T ---			CTCCTCCTTTATTTTCAGCATGGAGGGTTTAAATGGAGGATCTCCTTTTCCTGTGACAAAAACATCTTTC ACAACTTACCTTGTTAAGACAAATTTTAAAAAGATCTTTTACAACTTACCTTGTGTTAAGACAAAATTT TATTTTCCAGGCTATTTAATACGTACTTTAG[C/T]TGGAAATTTCTATGTCAATGATTTTAAAGCTA TGAAAATACAATGGGGGA
U09607	39 T C ---			GAGGCCTTATGAGGGTCTCTACTTCAGGAACACCCCAAT/C/GACATTCATTTGGGGGGCTCCCG TGGCCTGTAGAATAGCCTGTGGCCTTTGCAATTTGTTAAGGTTCAAGACAGATGGGCATATGTGCAG TGGGCTCTCTGAGTCTCTGGCCCAAGAAAGCAAGAACCAATTTAAGACTCTCGCATCTTCCCAAC CCCTTA
U09608	82 T C ---			GAGCAGAAAGCAAGCGGCAAGATGAGTTTGAGCGTTGTATCCAAAGGCCTCATCTGGAGCCTC GGGAAAGTCTGGTCC[C/T]ACATCTGCCGCCCTTCCAGCCCTTCCAGCCCTCCTCTGTGTTCTTC ATTCATTCAACAAAATTTGGC
U10694	20 C G ---			GTGACATGAGGCCCATCTT[C/G]GCTCTGTGTTGAAGAGAGCAATCAGTGTCTCAGTGGCAGTGG GTGGAAGTGAGCACACTGTATGTCATCTCTGGTTCCTTGCTATTGGGTGATTTGGAGATTTATCCTT GCTCCCTTTTGGAAATGTTCAATGTTCTTTTAAATGGTCAGTTTAAATGAACATTCACCATCGAAGTTAA TGAATGACAGTA
U13877b	162 T C ---			AAAAGGACTCTGGTTCAAATCCAGGTTCCATTTTGCTATCTTTGTGACCTTGCACAAGTTGTTTAAAC CTCTTTGTTTCAGAAATTTCTCCATGGAGTAACAATATCTAGTTGGAGGATTAGTGAAGTTACATGT AAAGCACAGAGGAACAGCCAAAGAGAT[C/T]TACCCTGGTCTTACTAAAGTACATATCCTAACTTGG GGTTTACCTTCAGCA
U15555	187 T C ---			TTTCTGTCCACTTTTACCTGGTTTAAATAGCCAGCCAGTCATAATAGTAGAGGAATCAGTCAAGCAA AAATGCTTTTGAAGAAATTAATAAGCAATGCTGAACATCAGGAATGTAGATATCCGTACAGAGAGT TCCAGTAAATTTTATGAGTCCACGACCCCTTTTCTAAGCAGTCTGGTCCATG[C/T]GGTCTCATAC CTCATATGCAGGATTCATCA
U17077	122 T C ---			TCCAATATTGGTCCCCAAAGCAGCTTCCAACGTTTGCCATCTGGATGACAAACGGAAGATCCACT AAAACGTCCACGGGATTAAACAGAACGTCCTTGACACTGAGCGATGACACCACAC[C/T]TGTGTTGG ACATTTAAATTCACCTCTGCTGAATAGGAGGAAGCTTTCTTTTCTGGGAAACAACTGTCTCTTGG AATTA
U18543	58 T C ---			GCACATGCAGAAATAGACTCAGCCCTATGTCTGATTCCAGCTGGGTAGTCTAGAACTTT[C/J]AGAAG CTCCATCTTTTAAATGTTTATTTGTTATGTCCTCCCTCCCGCTCCCACTAAATTTAGAGCTTTAAA AGATGCACTGCCCAATAGGACACACGATGGTGTAGCTGAAGTTTGTAGCAATTAGGCACTTCC AAGGCTTTAGTAGAGAGAGCC

J25975b	164	C A ---	---	TCAC TGTGTGGCCTCATACTCTTTTCCATTTTCTACAAGAAGCCTTTTAGTATATGAAAAATTATT ACTCTTTTGGGGTTTAAAGAAATGGTCTGCATAACCTGAATGAAAGAGCAATGACTATTCTCTG AAGACAACCAAGAGAAAAATTGCAAAAAGA[C/A]AAGTATGACTTTTATATGAACCCCTTCTTTAGG GTCCAGAAGGAATTGTGGACTGA
J25975a	143	C G ---	---	TCAC TGTGTGGCCTCATACTCTTTTCCATTTTCTACAAGAAGCCTTTTAGTATATGAAAAATTATT ACTCTTTTGGGGTTTAAAGAAATGGTCTGCATAACCTGAATGAAAGAGCAATGACTATTCTCTG AAGACAAC[C/G]AAGAGAGAAAAATTGCAAAAAGACAAGTATGACTTTTATATGAACCCCTTCTTTAGG GTCCAGAAGGAATTGTGGACTGA
J25997	61	A G ---	---	CAGGGAGAGGTTATTACAAACCTCACAAACTAGTATCATTTTAGGGGTGTTGACACACCA[A/G]TJT TTGAGTGTACTGTGCCTGGTTGATTTTAAAGTAGTTCCTATTTCATCCCTTAAAGAAAAATT GCATGAAACTAGGCTTCTGTAAATCAATATCCCAACATTCTGCAATGGCAGCATCCCAACCAACAAAA TOC
J28413	29	C T ---	---	ATTCTGACAGCTAAATTAGCCCTAAATG[C/T]GGGTAATATTTTCCTCATGTTTAAAAATGAGGTT AATATTGCATAAAATCCTAAAAACAGACTTCTGTATAGTTTATTTAGTCAAAATGTGTTCTTGATCC CAGATGTTGTGGCCTGGGAAAGCCCTCATTGCTACAGTACAAGTAACACAAGTCGTTGTACCTCAGTT G
I30884c	89	A G ---	---	TAGGGTAGCATTTAAGATTACAGGAGTCATTAGCAGTGATGATTTTGGGACCTGCCGTATAATCTGTT CTTCTATTTCCACGTTAGCCAATTGTTCTTGATGAATCTATATGATGATGATGATGATGATGATGATGAT TGACGGAAGTCATTAGAATGGCTTGTAATCTGATGGCTTGAACCTGCCACACAGTTGAACACAAAGT GCTGTCA
I30884a	34	A G ---	---	TAGGGTAGCATTTAAGATTACAGGAGTCATTAGC[A/G]GTGATGATTTTGGGACCTGCCGTATAATCT GTTCTTCTATTTCCACGTTAGCCAATTGTTCTTGATGAATCTATATGATGATGATGATGATGATGATGAT TGACGGAAGTCATTAGAATGGCTTGTAATCTGATGGCTTGAACCTGCCACACAGTTGAACACAAAGT GCTGTCA
I31216b	78	A G ---	---	GGGACAGCATATGTGGCACCCTCTCTGTGCACGTGAAGACCAATGAGACGGCCTGCAACCAACA GCCGTATCA[A/G]CCCCCTCACTAAAGTTACCAAGGCTCTGGCAAGAGCCTGACCTTTTCAGATA CCAGCACCAGACCCCTTTACAACGTAGAGGAGGAGGATGCCAGCCGATTGCTTTAGCCCCGCC TGGTAGCCCTTCCAT
31216a	70	G A ---	---	GGGACAGCATATGTGGCACCCTCTCTGTGCACGTGAAGACCAATGAGACGGCCTGCAACCAACA GCC[G/A]TTCATCAAAACCCCTCACTAAAGTTACCAAGGCTCTGGCAAGAGCCTGACCTTTTCAGATA CCAGCACCAGACCCCTTTACAACGTAGAGGAGGAGGATGCCAGCCGATTGCTTTAGCCCCGCC TGGTAGCCCTTCCAT

U31416c	76 GA ---			AGTTGCCAGCTCCCATGTACCAGCAGCTGGAATCTGAAGCGGTGAGTCTTCATCTTAGGGCATCGCTC CTCCTCAQ[G/A]CCACAAATCTGGTGCCCTCTCTCTGCTTACAAATGTCTAGGTCCCACTGCCTGCT GGAAGAAACACACTCCTTTGCTTAGCCACAGTTCTCCATTTCACTTGACCCCTGCCCACTCTCC AACCTAACTGGCTTACTTCCT
U31416b	68 CT ---			AGTTGCCAGCTCCCATGTACCAGCAGCTGGAATCTGAAGCGGTGAGTCTTCATCTTAGGGCATCGCTC [C/T]TCTCACGCCACAAATCTGGTGCCCTCTCTCTGCTTACAAATGTCTAGGTCCCACTGCCTGCTG GAAAGAAACACACTCCTTTGCTTAGCCACAGTTCTCCATTTCACTTGACCCCTGCCCACTCTCCA ACCTAACTGGCTTACTTCCT
U37519a	78 CT ---			ACGGGTACACAGAGAAACCTGAGTCTAGCCATGAGGGGCTTATGCTCCCACTCACATTGTTCTCC AGACCGCAGG[C/T]TCCCCCAGCCTCAGTTGCTGGAGCTGTCACATGACTGCATCCTGCCTGCCAGG GCTGCAAAGCAAGGCTTCTGCTTCTATCTGGGGACGCTGCTCGAGAGAGCGGAGAGGCCGCGAGAAC ATGCCAGGTGTCC
U37690	54 A G ---			GACCACGCTGAAACCCACCCCGCTGTGCTGACCATGGGCCCTGAGCGTCTT[A/G]CCCCGAATTC ACGAGGCTGAGGCATCCGGGAGCTGGCGTAATGCCTGGCCGAGTGTGTATCCCATACCCCACT CTGGAAGGAACCATCCAGTAAAGGTCTTT
V00540	39 T C ---			TGAAACCGTTTCAACATGGAATGATCTGTATTGACTAA[T/C]JACACCAGTCCACACTTCTATGACT TCTGCCATTTCAAAGACTCATTTCTCTATAACCCGATGAGTTGAATCAAAATTTTCAGATCTTT TCAGGAGTGTAAAGGAAACATCATGTTTACCTGTGTCAGGCACTAGTCTTTACAGATGACCATGCTGAT A
X15943	106 A T ---			TCAAGAAGGTGACTGCCCTTGTATGATGGGATGGGAAGATGAATGACTGGTTTTTACTGGGGTGTA AACCACTCTGAGCCTCTCTGAGACCATGTGGTTTTAA[A/T]ATCCATAAGGGAAGGTACCCACAC CAGTATCTGAGTTCAGTAGCTAAGACCCTAGAATTTGGATTCTCTGTTTTTTCATGCTCTCTCTT GTAACCCCTGAGATCATCAG
X52011b	148 CT ---			AGGAAGATCCCACCGACCCCTTCTGGCCTAATCCTTTAGATTAGGTACATTACATTAACTTTAGGA ACCCAGACCGGAAAAAGTTGCTGAAAGGGAAGGAGACACATTACAAAGAAAAAGTTGCGAAAAATTGCG AAATCTGTTGTGCA[C/T]GCTCAAAATGAAAAACGCCCTTCGGCTTTTGGCTTTATTTTTTTGGAACTG CGAGTGGCTTAGGTCTAGCCT
X52011a	118 A/C ---			AGGAAGATCCCACCGACCCCTTCTGGCCTAATCCTTTAGATTAGGTACATTACATTAACTTTAGGA ACCCAGACCGGAAAAAGTTGCTGAAAGGGAAGGAGACACATTACAAAGAAAA[A/C]GTTGCGAAAAAT GCGAAATCTGTTGTGCAGCTCAAAATGAAAACGCCCTTCGGCTTTTGGCTTTATTTTTTTGGAACTG CGAGTGGCTTAGGTCTAGCCT

X54741	24 A G ---	---	CAGGCCACCTGTCTCTCTCCACIAGJTGACAGCTTCTGAGTCAACCCCTGTGTCAGCCAGCTCCT GCACAAATGGAATCCCCAGGCCCTCCAGACTGGGCTTGCCAGGCTTGCAAAATAGCAAGGCCAG GGCAGCTGGAGACGATCTTGCTGGCAGGGCTGGCTTGCCAGCCACCTGGCCCCCTTCTCC AGCAAGCAGTGC
X54869	99 A G ---	---	AAGCATTTGCGTTTACAGTGCATCAGATACATTTTATATTTTAAATAGAAATATTATGATTGCAT AAATCTGAAATGAATATGTTATTTGCTCTIAGJATACAAAAATCTAAATCAATATTGAAATAG GATGCACACAATTACTAAAGTACAGACATCTAGCATTTGTGCGGCTCATTTTGTCTCAACATGGTA GCCGTGCTGACACCTCCAGAACGAGGTGCTGGCCCGTTCTGCCCTGGGACCCCGGAACTCTC CTGCCGGAAGCCGACGGAGGATGGGCCCCAACTTGCCCTGCCACTTGACTTCAACCAATCCCT TCCTGGAGACTIAGJAACTGGTCTCAGGAGCGAAGGACTGTGAACCTTGCGCTGAAGAGCCAGA GAAATGTGAAGAAATGTACAAAGCCTTTAAGCGGTTGTACACTTGATTGTATATAAGATAAT/GJT CATACTGGAGAAACTCCAGAAAGTGTGACAAATGTGACAAACATTTAATTAATCTCATACCTTA TTGCACAGGAAAGCATTTACTTGAGAAAAATTTATATAAGAAATGGAAGATCAATTAATATCTGCT CATATCTTAACATCAGCGAGTT
X78932	62 T G ---	---	CTAACCCATAACCTCAACCACATCTIATCTCTCCACCCACATCCACACATCCACCTCCATCC CCAACCCATCTCATCCCCAAGTACAGCCCCAAACCCAGCCAGACTAATCCACAGCATCCCCAA CTCATCTCATCCCCAAGTACAGCCCCAAACCCAGCCAGGCTATCCCAACCCATCCCAAGCC AACTCAACAGCATCC
X80026	25 T C ---	---	ACCCAACTCAAGTCCAGGCCCGGAGCATCTTCTGCCCTGCCCTGCTGGCCCATCCAGTCCAGG CGCTGGAGCAAGTGTCTAGCTACTTCTCTIAGJACTTTGAAAGACCCCTCCACTCTCTGGCTCA CATTTCTGTGTATCCCCACTTCTGGGCTCTGCCACCCACAGTGGGAAAGGCCACCTAGAAAG ACCCAACTCAAGTCCAGGCCCGGAGCATCTTCTGCCCTGCCCTGCTGGCCCATCCAGTCC AGGCGCTGGAGCAAGTGTCTAGCTACTTCTCTGACITTTGAAAGACCCCTCCACTCTGGCTCA CATTTCTGTGTATCCCCACTTCTGGGCTCTGCCACCCACAGTGGGAAAGGCCACCTAGAAAG GGCAGCCAGAGTGACCAAGTCCAGAGGGGCGCGCTGCGCGTGTGCTGTTTCTTTTT CAGCCCGGAGAGGTCTGACCTGGGGCTTCTCAAGCTCTACTGCGCACGCTCCCGGCGCTCT CTTTCTCCCAAGCAGJAAACCAATGCGCCCTTACCTCGCGTGGCGGCGGCGGCTT CTTTCAGAGC
X80197a	28 A G ---	---	ACCCAGCCATGGTCTAAGGACATGGATCGGGTGGCCCGAGAGTGTGACAGGGGACCCCTCTGCCC CACTCTGGCTTTTCAGATACCTGACCAAAAGCCCTGCTTTAAACCGCAAGATGGGGCTT/GJGGG ATGCGCAGGAGGAGCCATCGGGTACTACGCAGCAACACTCACAACGTGCCAGGCTGAGATAATCCC GGGA
X80197b	99 G C ---	---	
X80197a	28 A G ---	---	
X85106	150 G A ---	---	
X87160	128 T G ---	---	

1282	130	CT	---	GTGCGATCACCACACTACAGTCTAATTTTCAGATGTTTTTCATTACCCCTAAAAGAAATCTTGTACCCATTAGCAATTAATTCCTCATTCCTGCCCTCACCCTCAGGCCCTACTCTTTATCGCTATAGATTTGCCCTCTACTTGACATATACACATGGAGCCATACATATGTGCCCCTCATGATTGGCTTCTTTCACCTGAGAAATATGTTTTCAAGGT
6810	68	CT	---	AGTATCACACATACCTTAATATATTAGATATACACAATAATAAATCACTCCCTACCTTGAAAACCTTTA/C/TJAGAAGCATTTTTAATTTTACAACACAAGCTCAACAGAACCTACAATAAGTCTAGTAGTCTGTTTACGTGCCAAGGGATAAGGCTGAACAATAAATTAACCCCTTTAAAAATGCTATGAACAAGTACAAATTTCTTTTGAAGTCTGCAGAGCAATGACCACCTAAGAAATATTTTAAAGGC
6817	118	AC	---	CCAAGTACATTGGGTGAACGATGAGCTAGCTGTTCTAGTATTTGCTTTTGTAAATCCAGTTAAGACCATCAGCATATACAACATCATCACTAACTCAACAATGATGCTGCAGGGTAAC/A/CJTGTGGATACCCCTGTGTCTCTACTGGCCTCCAAAGGCATTCAAGGGATCATCAAAAGATGTTGGACACCTTGTGTTCAAATCTTGGTTCAGGTGCGGCTGTGCAGATCGGCTTTTGGTTTGGTTGCTTAG
3819b	212	C	---	CCATTTATTTTTCTCTAAATTTTAAATAGAAGACTTTAATGGAAAACATTTAGTACCATCATGTCAACCTGAATGCCAGCAATACCTCGACTTTTACACACGAGGAGCCTAGTAAAGCCCGTCAGTAGTACACATTTCTCTATGGTCCCTTCAACAGTTTTCATATACAAAATTTCTGCTATTTTGCCTTAGCAAA
819a	166	GT	---	CAGCAATAACTTTTGTGTTTCTATATGACACCTAATATCCA CCATTTATTTTTCTCTAAATTTTAAATAGAAGACTTTAATGGAAAACATTTAGTACCATCATGTCAACCTGAATGCCAGCAATACCTCGACTTTTACACACGAGGAGCCTAGTAAAGCCCGTCAGTAGTACACATTTCTCTATGGTCCCTTCAACAGTTT[G/T]CATATACAAAATTTTCTGCTATTTTGCCTTAGCAAAACAGCAATAACTTTTGTGTTTCTATATGACACCTAATATCCA
81xx	39	AG	---	CTGGTATGTCATAAGCAATCCATAATTGTTATAGCTATTJA/GJTTATACTATGGCACCATTGGGACACAGATTATATATGTCAGACACCCAGCAATGTCTTTAAGATATGCAGCAAGCACAAATCTGTCTATGGTTAACAAAAGAAATGAACGTCTAGG
972b	149	GT	---	AGGATTCCTCTTTTCTATTGATTGGAATAGTTTCAGAAGGAATGGTACCAGTTCCCTCTGTACCTCTGGTAGAATTCGGCTGTGAATCCATCTGGTCTGGACTCTTTTGGTTGGTAACTATTGATTATTGOCACAAATTCAGAA[G/T]CCTGTTATTGGTCTATTCAGAGATTCAACTCTCTCCTGTTAGTCTTGGGAGAGTGTATGTGTCGAGGAAT
172a	122	AG	---	AGGATTCCTCTTTTCTATTGATTGGAATAGTTTCAGAAGGAATGGTACCAGTTCCCTCTGTACCTCTGGTAGAATTCGGCTGTGAATCCATCTGGTCTGGACTCTTTTGGTTGGTAA[G/T]CTATTGATTA TTGCCACAAATTCAGAGCCTGTTATTGGTCTATTCAGAGATTCAACTCTCTCCTGGTTAGTCTTGGGAGAGTGTATGTGTCGAGGAAT

598k	210 A C ---			AAAGGTAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCAAAGGAACTCA ATGAAATAAGCCGCTAACCCAGATTTACCTGGAGAAATGAAAATTATTTCTTGAGGATGCCTTTTA ATATTTGATCCCATTTATGTGAGAGATTTTCTGATATGTTATCTTATTTATTTTCCCGTATTTTCT CAATGCAG[A/C]
598j	208 A T ---			AAAGGTAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCAAAGGAACTCA ATGAAATAAGCCGCTAACCCAGATTTACCTGGAGAAATGAAAATTATTTCTTGAGGATGCCTTTTA ATATTTGATCCCATTTATGTGAGAGATTTTCTGATATGTTATCTTATTTATTTTCCCGTATTTTCT CAATGC[A/T]GA
598i	192 G T ---			AAAGGTAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCAAAGGAACTCA ATGAAATAAGCCGCTAACCCAGATTTACCTGGAGAAATGAAAATTATTTCTTGAGGATGCCTTTTA ATATTTGATCCCATTTATGTGAGAGATTTTCTGATATGTTATCTTATTTATTTTCCCGTATTTTCT CCTCAATGCAGA
598h	144 C T ---			AAAGGTAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCAAAGGAACTCA ATGAAATAAGCCGCTAACCCAGATTTACCTGGAGAAATGAAAATTATTTCTTGAGGATGCCTTTTA ATATTTGATCC[C/T]ATTATGTGAGAGATTTTCTGATATGTTATCTTATTTATTTTCCCGTATTTT CCTCAATGCAGA
598g	142 C T ---			AAAGGTAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCAAAGGAACTCA ATGAAATAAGCCGCTAACCCAGATTTACCTGGAGAAATGAAAATTATTTCTTGAGGATGCCTTTTA ATATTTGAT[C/T]CCATTATGTGAGAGATTTTCTGATATGTTATCTTATTTATTTTCCCGTATTTT CCTCAATGCAGA
598f	120 A G ---			AAAGGTAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCAAAGGAACTCA ATGAAATAAGCCGCTAACCCAGATTTACCTGGAGAAATGAAAATTATTTCTTG[A/G]GGATGCCTT TTAATATTTGATCCCATTTATGTGAGAGATTTTCTGATATGTTATCTTATTTATTTTCCCGTATTTT CCTCAATGCAGA
98e	83 C T ---			AAAGGTAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCAAAGGAACTCA ATGAAATAAGCCGCTAA[C/T]CAGATTTACCTGGAGAAATGAAAATTATTTCTTGAGGATGCCTT TTAATATTTGATCCCATTTATGTGAGAGATTTTCTGATATGTTATCTTATTTATTTTCCCGTATTTT CCTCAATGCAGA
98d	77 C T ---			AAAGGTAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCAAAGGAACTCA ATGAAATAAGC[C/T]GCTAACCCAGATTTACCTGGAGAAATGAAAATTATTTCTTGAGGATGCCTT TTAATATTTGATCCCATTTATGTGAGAGATTTTCTGATATGTTATCTTATTTATTTTCCCGTATTTT CCTCAATGCAGA

7598c	56 A G ---	---	AAAGGTAATCAAAGTTCCCTCTATAAATTATGATTTACAAAAGACACCCCAAGCCA[A/G]AGGAAC TCAATGAAATAAGCCGCTAACCCAGATTTTACCTTGGAGAAATGAAATTAATTTCTTGAGGATGCCTT TTAATAATTTGATCCCATATGTGAGAGATTTTCCCTGATATGTTATCTTATTTATATTTCCCGTATTTT CCTCAATGCAGA
7598b	47 C G ---	---	AAAGGTAATCAAAGTTCCCTCTATAAATTATGATTTACAAAAGACA[C/G]CCAAAGCCAAAGGAAC TCAATGAAATAAGCCGCTAACCCAGATTTTACCTTGGAGAAATGAAATTAATTTCTTGAGGATGCCTT TTAATAATTTGATCCCATATGTGAGAGATTTTCCCTGATATGTTATCTTATTTATATTTCCCGTATTTT CCTCAATGCAGA
7598a	30 A G ---	---	AAAGGTAATCAAAGTTCCCTCTATAAATT[A/G]TGAATTTACAAAAGACACCCCAAGCCAAAGGAAC TCAATGAAATAAGCCGCTAACCCAGATTTTACCTTGGAGAAATGAAATTAATTTCTTGAGGATGCCTT TTAATAATTTGATCCCATATGTGAGAGATTTTCCCTGATATGTTATCTTATTTATATTTCCCGTATTTT CCTCAATGCAGA
7998c	116 A T ---	---	GTGTTGATCTCACTGGTGTCTGCAGGCCGGAGCTGTTCTTATTCAGACATCTGCCAGCTCTCCTGTA ATACTTTAATGAATGGGTGATGCTATCTTCTCAAGGTCCCCAATA[A/T]CCTTGAGGTTCCCT
7998b	94 A C ---	---	GTGTTGATCTCACTGGTGTCTGCAGGCCGGAGCTGTTCTTATTCAGACATCTGCCAGCTCTCCTGTA ATACTTTAATGAATGGGTGATGCTT[A/G]CTTCTCAAGGTCCCCAATAAACCCTTGAGGTTCCCT
7998a	75 A T ---	---	GTGTTGATCTCACTGGTGTCTGCAGGCCGGAGCTGTTCTTATTCAGACATCTGCCAGCTCTCCTGTA ATACTTT[A/T]AATGAATGGGTGATGCTATCTTCTCAAGGTCCCCAATAAACCCTTGAGGTTCCCT
8071	119 A G ---	---	AAATACAGAAATTTTATTAGAAACTGTTTAAAGTAGAAAAAACCCCTGTCAAGAAAGACCAGGTGG AAAATGGGTTCCCAATAAAATGGAATTTTAGGGCAACAAGCTAAAGGCC[A/G]CAAAAAGAGA AATAGCACCACTGTCAATTTGAACAATGGCTAGTTACTTGCAATTTTGGCATTGTTAATCACTGAATC TGGGTTTCTCTGAAATCCACACAGAGCATGCACACACATTTTATCAT
9467b	93 C T ---	---	AAGGCTTTCTCTAAACATCAGTCTCTACGGAGAAACCTGGGAAATCCTGGATATTTGGCTTATCATT TGACGCAAAATCCACTTTGCTGTA[C/T]GGTCACTCCGAACCTCCCTTCAGAGAGCAAGCAAAA TTAAGTGTGATACTGGAGCTTATGCATGCAAAAGCTTGCAAAAAGTATTAAGGAAAAATTACTG
3467a	70 A G ---	---	AAGGCTTTCTCTAAACATCAGTCTCTACGGAGAAACCTGGGAAATCCTGGATATTTGGCTTATCATT TG[A/G]CGCAAAATCCACTTTGCTGTGTAACGGTCACTCCGAACCTCCCTTCAGAGAGCAAGCAAAA TTAAGTGTGATACTGGAGCTTATGCATGCAAAAGCTTGCAAAAAGTATTAAGGAAAAATTACTG
8498	84 C T ---	---	AGGGTTCAGGGTTTGGTTTTAAATCAGGCTGCACACCTTTCAAATCAATCTGACATCTCTATGTCA AACTGGCTTCAGCTAG[C/T]AATACTTCAATTAATCGAAAAAGAAAAAATTGCTTTAAGGAAAAAA AATCCAGTTTTAAGAACAATTAACATTAGTCTTTAAATAAAAGGAGGGCTAATGTTTCATGTTGCT TTATACATCCTTCTCCTCAATACAGAACCCAGGAATGTAATTTTCCCTAACTCAG

WI-18562	29	G A ---			CTAAGGAAAAATTTAATGATGGAATATC[G/A]ACAAATATTTCAACATCATTTAAAAACAAGTAG CTTCTTATTTACATAGCTTAGTTGGGATAGAAATAGAACTAATGTTTACAATGATCTTACATT TAGCATTAAATCAGAAACGA
WI-18618	51	A C ---			ATAGCAGACTTTTAAATCAATGCCAGAGACAAAGTGAGGCCGAGCTAAGAAC[A/C]CGCTCAGCTTCG TTACAATGAAGAAATGGTTCCCTTCGATGCAAAAGTATAATTGTAAACCACACAGTGCTCGCACAGTTC AC
WI-18683	22	C T ---			TAAGCTGTTCAGGACTGGACT[C/T]GGTCCCTTTATTGAGACTGACAGGCCAGTGGGTCCACCCAAA CAAAAATAAATTTCTCTCCCAAAGCCTGCCTGCAGT
WI-18520	75	G A ---			GACTTTGGTGATTTAATTGCTTTTCCCTTAAATATAGAAATAGGTGTAATTTCTCTTTTGTCTTTT ACTACA[G/A]CCGGAGTGGTAAATACTACCTACTGCCAACAAACACGGGCATCCACTCTGTCTTCAA TGCTCTTCGGTGAGAC
WI-18563	94	A G ---			AAATAAGTTTTATTGGCACACAGCCCAAGCCCACTGGATGACACACATTGTCCACGGCTCATCTTGCAA TACAATAGCAGGGTTCACTAATGTGAC[A/G]GACATGGTGGCTCACAAGCCAAAGATATT
WI-18582b	69	T A ---			GTCTATTTTCAATTTAGCTAGACCCCATTTTCATTTTAAATGGCTACATTTGTTTTCATTGTGAGAC [T/A]GTGCCATAATTTAATTAATCAGTGCCATAATTGAAAGACATTTGGATCGTTTCCCAG
WI-18723f	94	G A ---			AACTTATTGATCTGACGATCAGCGATTAGTTCTCATCCACATTGACTGCTGTAGATTTTGAAG TGTAACAGGTACATAGGTAACCAA[G/A]TATATAGCTTATTGGTGAATCTTCATCCT
WI-18723e	71	T C ---			AACTTATTGATCTGACGATCAGCGATTAGTTCTCATCCACATTGACTGCTGTAGATTTTGAAG TGTT[C/A]ACAGGTACATAGGTAACCAAAGTATATAGCTTATTGGTGAATCTTCATCCT
WI-18723c	96	A G ---			AACTTATTGATCTGACGATCAGCGATTAGTTCTCATCCACATTGACTGCTGTAGATTTTGAAG TGTTAACAGGTACATAGGTAACCAAAGT[A/G]TATAGCTTATTGGTGAATCTTCATCCT
WI-18619	44	G A ---			TTTATTACAATATTAGGTGGCACAATAACTAACAAAGCTTCTGA[G/A]ACAGGAGGTAACATTCTCA TAGACTTTGCAACTCAGCCAGAAGTAAACTCGAAATA
WI-18715	76	G A ---			TTATCACAAAAAGTGATATTGCAGAGGGCTGGGGCTGTACATGGGCAGGGCTGGTGAGCTTTG TACATGGG[G/A]CTGGGAGACAAGGGAGCCTCCAGGTGGAAGGGTATTTTAAATAAAAAATAA TGGAGCTACAACCAACCCCC
WI-18535	107	G A ---			GTAATAAAGTTTTATTGGCACAGCCACGCTGTTCAATTCATATGCCATTGACATCTGCTGTTGCCCT ACACAGCAGGGTGGGACCTGCTCTTCACGGGAGAGCTA[G/A]TTGTTTAAAGCAGTGGTCCCCAAC CTTCTGTGGTCCCCCGTG
D17525	107	C T ---			AGAGTGGTCAGAACACAGGCCGAATCCAGGCTCTATCACTTACTAGTTTTCAGTTCTGGGCAGGTGAC TTCATCTCTTGAACCTCAGTTTCTTCATAAGATGGAA[C/T]GCTATACCTACCTACCTCGTAAAA GTCTGATGAGGAAAAGATTAACTAATAGATGCATAGCACTTAACAGAGTGCATAGCATACACTGTTT TCAATAAATGCACCTTAGCAGAAGGTGATGTGTCTACCAGGCAGACGAAG

DWU-133c	313	A G ---	---	TAATTGGCCACTGCCTTATTTATTACAAAACAGAAATGTCTCATGACTTTTTATGTGTACCATCCT TTAATAGATCTCATACACCAGAAATTCAGATCATGAATGACTGACAGAATATTTTGTGGCAGTCCT GATTTAAACTAAGACTGGCTTGTGGTTAAATGAATATGTTTCAGTTTTGAATTTAATAGTAACCTCC AATTCAGTAAATGGTATCACCTCGTTTACCCCTTTTAAAGATATGATTAGACT
DWU-133b	236	T C ---	---	TAATTGGCCACTGCCTTATTTATTACAAAACAGAAATGTCTCATGACTTTTTATGTGTACCATCCT TTAATAGATCTCATACACCAGAAATTCAGATCATGAATGACTGACAGAATATTTTGTGGCAGTCCT GATTTAAACTAAGACTGGCTTGTGGTTAAATGAATATGTTTCAGTTTTGAATTTAATAGTAACCTCC AATTCAGTAAATGGTATCACCTCGTTTACCCCTTTTAAAGATATGATTAGACT
DWU-133a	199	C T ---	---	TAATTGGCCACTGCCTTATTTATTACAAAACAGAAATGTCTCATGACTTTTTATGTGTACCATCCT TTAATAGATCTCATACACCAGAAATTCAGATCATGAATGACTGACAGAATATTTTGTGGCAGTCCT GATTTAAACTAAGACTGGCTTGTGGTTAAATGAATATGTTTCAGTTTTGAATTTAATAGTAACCTCC AATTCAGTAAATGGTATCACCTCGTTTACCCCTTTTAAAGATATGATTAGACT
DWU-36	102	C T ---	---	ATGAGATCCTTTAAATCCTTCCATGAACGTTTTGTGGTGGCACCTCCTACGTCACATGAAGTG TGTTCCCTTCAGTGCATCTGGGAAGATTTCACCTGTTGACCAACAGTTCCTTCAGCTTCCATTTCGCC CCTCATTTATCCCTCAACCCCGCCACAGGTGTTTACAGCTCAGCTTTTGTGTTTAAATAGTAACCTCC AAACAAATAAGACCATAAAGGGAAAGGATTTCATGTGGAATATAAAGAT
DWU-387	169	G T ---	---	GTGTATAAAATGCAACTGTTGATTTCTCAACATGGCTCACAAATTTCTATCCCAAATCTTTCTGAA GATGAAGAGTTTAGTTTTAAACTGCACCTGCCAACAGTTCATCATATATAAAGCATTATTTTAA CTCTTTTGAGGTGAATATAATTTATATTACAATG[GT]AAAGCTTCTTTAATACTAAGTATTTTCA GGTCTTCACCAAGTATCAAAAGTAAACACAAATGAAGTGCATTATTCAA
DWU-447b	172	--- ---	---	ATTTAGTGCTTTGCGTTAAAAAATCATTGCAAAAGTATCTGAAGTGCAGCTGCCAGTCAGAT GGGCTGTTGCCATTTAAATCACTGTAATTAATTAGTTTATTAGAGCACAAGCTTAGCTAATCAA CCATTATTTTCAATTTGTTTCTAAGAGGATTGANAATCAGTTTAGTTAAATGCTTTCTGTTAG GCCTTTCTTCTTACAATGAAGAGATGATCTTCTAGTTTATGGTTA
DWU-447	85	A G ---	---	ATTTAGTGCTTTGCGTTAAAAAATCATTGCAAAAGTATCTGAAGTGCAGCTGCCAGTCAGAT GGGCTGTTGCCATTTAA[AG]ATCACTGTAATTAATTAGTTTATTAGAGCACAAGCTTAGCTAAT CAACCATTTTTCATTTTGTGTTCTAAGAGGATTGANAATCAGTTTAGTTTAAATGCTTTCTG TTAGGCCCTTCTTCTTACAATGAAGAGATGATCTTCTAGTTTATGGTTA
DWU-476	63	C G ---	---	GTAATTCAGTTTTTTTCCAGTTCCTCTTTTGTGCTGCTTCTCAATTAAGGTTAAGGTGAG[C/G]AT AAATCAACTGTCCATCAGGTGAGGTGCTCCATACCCAGCGGTTCTCATGAGTAGTGGGCTATGCA GGAGCTTCTGGGAGATTTTTT

DWU-505	67 A T ---	---	TCATAAGGCGAGTATCTCTAGCTAGTGCCCATACAGAAAATTCCTATCACCATACAAAAATTTA ATJGCGAGTATTATGTTTTAAAGCACAGGTGTACCGAAACTGTGAAAGTCTGAATTTATGGGTT CTATGCATGCAATTTTGCTTAACCTAGAGAAAGAGTTTGATAAATTTTACCAGCTTTGAAGATGGAT TAACTTTTGACITTTGAGCTTTAAACTTTTAA
DWU-512	131 A G ---	---	AAATCCAGGCATTTGCAATCTGTTTTTCATGATTTATAGAGGGTTACACAAAGTGCCACTTATTAA AGAGCTTCACAGTGAAGATGGAGAAGGTGAACCTGCTTTGAATATCCAGATGTGTTGGTC[A/G] TGCGTATGGCAGTGAGCAGGTATGTTGCTTTTGCTTGCACTGAAATTAATTTGCTATCAAGAGC AACTATGAACGGTTTTTTTATTCAGATGCTCCAGAGTGAAGATGCCGAG
DWU-525	97 A C ---	---	AACTGCATATAGATAATTATCCAGGATGTGGCTCATTTCTTCAGCTTGTCTTACTGTTTGT ATATACAGTTTTGTAAACCATATGATTGA[A/C]AAGAAGAAAGTCTATGCTTAGGCCAGTCAGTACA CCCAATTTTAAAAATAACATATCTTGTCTTCACAAATATAGTTGAACAAGATTTCCCTAAAAAT CCACCAGGATTAATCTCTAAATTCAGTCTGCTGATTTC
DWU-59	94 C T ---	---	CATTTCTTTGTGAAGGTAATGGACTCACAAAGGGGAAGAAACATGCTGAGATGGAAAGTCTACCGG CCCTTCTTTGTGAACGTACATTTGGC[C/T]GAGCCGTTGTCAGTTCCAGGTGGCAGACTCGTTTTTG GTAGTTGTTTTAACTTCCAGGTGTTTTACTTCTGATAGCCGGTGATTTCCCTCCTAGCAGACATG CCACACCGGTAAGAGCTCTGAGTCTTAGTGTGTTAAGC
EST11	68 C -- ---	---	CTTGATCATGGGTGGAATTTGTGATCTGGCTTCATGGGATGCATAAAATTTCCAGTTGGTAAG CAGCAGGTGCCGAGGCTGGATCAGAAAAAAGGCA
WI-19856b	63 C T ---	---	CACACTGGCATCTAGGCCTTCGCCTGCATTGCAGAGGAGAGCCAGGTCCCTCCTGGAGAA[C/T]G CTGGTTCCCCAGCCCAACCGGCTTTGCACACACAGGCTGTGAGGAGGAGGTGGTAAAGACGT AGCTGTAGACCCAAAGCAACACCCAGCCCTGGACCCCTGCGGAGAGGAGCACTTTAGAACATGGAA AAGTGTGGTCATCCCATCATTAGACAAGACACATCCCTACATAATAAAAAAGT
WI-18014	40 A G ---	---	TCCATTTACATTTGGTGGCATTTGTTGAATAGCTACAGAA[A/G]GAATGAAAGTGCACCATCAGAGT GTAATTAGGCTGTGTGACCCAGGAAGTGCTGTGTTAAACAGAGATTTCTCAAGGGCAAAGTGGCTTCT A
WI-18036b	97 T A ---	---	TTCCAATGTAAGAGTCAAGTACCAAGTTAACTTCTAGAAAATACAAAGAGAACATGATAAAATCTG ATCACAGTGGAAAAATTTAATCTTTTCATAA[T/A]CTGACAGGTCAAGTAAGCTAAAGGAAACATAT TAGGGATCTGAAGG
NI-8036a	27 T C ---	---	TTCCAATGTAAGAGTCAAGTACCAAGT[T/C]AACTTCTAGAAATACAAAGAGAACATGATAAAAT CTGATCACAGTGGAAAAATTTAATCTTTTCATAATCTGACAGGTCAAGTAAGCTAAAGGAAACATAT TAGGGATCTGAAGG
VI-18046	72 C T ---	---	TGTAAGGTGACTTCTATAAGCTTCCTAAACTGTCAAACCTTTCAATTTACTGAGATTATTCAGGCCAAT GTGTC[T/G]TTGGGCTGAGATTGATTATCAGCTGGGTAAGTTAACTGTTCTCTGTTTCA

NI-18063	105 GA ---	---	AGGCTTTAACTGATAACAATTTGCCCTTTAATCACATACAAAACTCTGCACCTTCATTCCTTCCTTC CCATGTTTCTGATTTGATGTAACTTAAATTTG[G/A]JCCCTTAAACAATATACTGTAGCTGCA AGTTGAAAGATCAGAGAGGTTATGGTTGGTAGCTAGCTGAATCAGATTCAAACCTGGTCCAGTGTG TTGTTTTCAGCATCAG[A/T]GTCCACTAGCCAAGTTGATCTCGAGTATCTACATGTGGT CCAAAGCTCACTCAGTATTTAATCATCTGCTAATTTTCATCCTTTGTTAATCCATCAGACACTGTGGT TTTCATCTCTAGAAGTTTGAATTTT[C]GGGCTTTTATACTCTCCATATCTCAACTTGTTAAGC GCAATCTGTAAACAGTTTGGTAGTGGTATTACAGAGGAT[C]JTTGTAATGGATTGGAGTACTTAC CACTAATTCATCTGCTCTGAAATAGTTCACTAACCAACTACTGACAACTGTTAATTTGGTTCTT TTCAAGATAATTACAATTTGGAAGGGGACCAATAATTCACCTTTTAAATCGAAAAATATCTATATAC T/GICCCAAATAAATCAGTAAATAAGCTTCAAAAAGCCTTAAGACACCAAAAGAGGAAAA GCATAGGTTGAGGGGTGTACAAGAGGAGAACCAAGATTCACTGCTGAGGTTAGTCTGGGG G/C]CGGCGGGATGGACACACAGACACATAGATCTGGCATCTGATAGCAGGGCATACAG TCATCTGAATCTGTGTAAGCCAGCATGGGGT[G/J]GGGAGGTGATTATGGCTGGGAAGATG GGCACTCACCCGACAGCAGCATCTAGCACCACTGACAGGACGTTGAGGTGGCAGAGGGCTTT ACAGATGTCAGTTGTTGAATTTGGCCATTAAAGTATGGGGCTTTCTGTTAAAAAGTCATTCCAA AGGCTTGGCAAGAGTTTGTCTATACACGAGGACAGAAACATGA[G/A]CTGGGAGTAGGCTCT GACAGAGGGTGGGCTGTC GATTTGAAGGGATTGCTTTATTTAAAC[G/A]TGAAAAGCGTGATAGAGAACTGTTTAAGATAACAA CTTATAAATCTCCCAATTGTAGAAGTGAAAGATTG TAGGAGGAAAGGAGGTGGGCTGCCTGGCCCTCAAGACATGAGAAACGGGTGGTGGCTTCCAAGC TTCTTACTTCCCCATAGAT[C/T]CCTGACAATGTCTGCAAGCCCTCCAACTGGAAC TCACAAGTCAATCTCCCATCCAAATGACAGTTTGTCTAAGATCATTAACTTGGTTGCCAATTTTTT ATCTATTTGGTCTGAGAAATCCACAATTTTGA[G/G]GAATCTTTTGCCAATTAATGACATATTCTG CAG TCACAAGTCAATCTCCCATCCAAATGACAGTTTGTCTAAGATCATTAACTTGGTTGCCAATTTTTT ATCTATTTGGTCTGAGAAATCCACAATTTTGA[G/G]GAATCTTTTGCCAATTAATGACATATTCTG CAG TCACAAGTCAATCTCCCATCCAAATGACAGTTTGTCTAAGATCATTAACTTGGTTGCCAATTTTTT ATCTATTTGGTCTGAGAAATCCACAATTTTGAAGAAATCTTTTGCCAATTAATGACATATTCTG CAG TCACAAGTCAATCTCCCATCCAAATGACAGTTTGTCTAAGATCATTAACTTGGTTGCCAATTTTTT T/GJATCTATTTGGGCTGAGAAATCCACAATTTTGAAGAAATCTTTTGCCAATTAATGACATATTCTG CAG
NI-18078	86 A T ---	---	
NI-18091	90 T C ---	---	
NI-18119	38 T C ---	---	
NI-18142	66 T G ---	---	
NI-18178	68 T C ---	---	
NI-18244	35 G T ---	---	
I-18245	115 GA ---	---	
-18261	26 GA ---	---	
18268	88 C T ---	---	
'8299f	107 CA ---	---	
9e	101 AG ---	---	
d	77 GA ---	---	
;	67 T G ---	---	

WI-18299b	52	G A ---	---	TCACAAAGTCAATCTCCCATCCAAATGACAGTTTGCTAAGATCAITTAACITG[A]/AJTTTGCCAAATTTTATCTATTTGGGTCTGAGAAATCCACAATTTTGAAGAATTCITTTGCCAATATTGACATATTCTGCAG
WI-18299a	48	C T ---	---	TCACAAAGTCAATCTCCCATCCAAATGACAGTTTGCTAAGATCAITTAACITG[A]/AJTTTGTTTGCCAAATTTTATCTATTTGGGTCTGAGAAATCCACAATTTTGAAGAATTCITTTGCCAATATTGACATATTCTGCAG
WI-18307	76	G A ---	---	TCAACTTGTAACCAAGTTTAGCAGCAAGAGGATACTTCTTAGAGACTTTTCAGTGGACTTAAACTCAGTTTCCGCTG[A]/AJTGCTATGTAAAGCATCCACGATGGTTTTATTGTACTCTGCAATCTGCTTGGTCAC
WI-18324	72	C T ---	---	TTTGGTATGAAATCTTTCTCTGACATTTACCAATCATCACTTAACTCCGGGGGTGGGTACTGATTTATC[C]/AJTAGATCCAAATAAAGCATGCAGAAAGTG
WI-18350	48	T C ---	---	ATGAAAGTCACTTCAATCATAAAGGGTCAAGAGAAAGAAATGTTTTTCAGAT[C]/CJTAAATCTATGAAAAAGTGTATCTGCTTGCAATTTAAGAAACAACACAAAGTCA
WI-18395	77	G C ---	---	TCTTGACATGATCTGTGAAATAACGTGATTGTGGTTGAAATTCCTGGAAAAATTTGAAGAATAAAATTTGATTATCAAG[G]/AJTGTCATGGTTTATACATATCTCCTCTCTCTTAATGCAAAAGCTATG
WI-18398	62	G T ---	---	TGCAGTGGCAAGACACTCTCTCGAGGAAAAAAGAAAAAGAAAAAACAACACTCAAGGGTT[G]/AJGATAACATTTGCCAGTAAACCAATAATCAAAACAAGCAGCAGAAATTTGGAGGATAATTTGTT
WI-18396	21	C A ---	---	CTCGTTGGTATTTCTCTCATCC[C]/AJTTCTTTTCGCTCTTTCTAAATTAAGAAAAAGCAATGGAATTTAAAGATCATCTAAGAAATAAGAACTTACATATGTAACATTTAACTTATCAACTTGTACAAAGTCAATGAAAA
WI-8409a	20	C A ---	---	AAGATGGGAAAGAGGAAATC[C]/AJTTTCTTACTAGAGATTTTTTTTCCCTTTAATCCTTTTCAAATTCAAAGGATCATCAAGGAGCAGGTGCAGAGCTCTGGGGCCAGAGGCCCCCAAGTGCTA
WI-18442	62	C T ---	---	AAAAAGGAAAAAGAAAGGATGGAGTAAGAGAGAGACAGAGAGGAAACAAAAATAAGTTTCTGG[C]/AJTTGGCTGATCTGGGTGATCAGGTGGACACTATTATCCAGAGGGGAAACACAGAGAAAAAAGGTTTATAGGTGGGAGAGAGGA
WI-18452	38	G A ---	---	TTGATGTTAATACTGTCATTCTGGAGATCGGCTAAAT[G]/AJAAAGCATAGTTATTATTAGCTTTGGTATTTCTCGACAGATTTAAACAAGTAAGACATATATCAACCCCTCATATTTTCCAACCA
WI-18489	102	A C ---	---	ATATAAGCTGGAGACTGTGGAGGGTGAGAGGCGAGTGGGACTAGCTGTTGAAAGAGAGAATGTAGCAGTAGTAAAGATGAAAGACTGCAAGGATTCAAAACA[A]/CJGGTTATGGCAATAGAGGTGAAAAAGAAAAGGCCATATAAA
WI-5b	93	A ---	---	CTGGTGGGAGGAAACAAAATTGTGGTATATTCATACAATGGAAAACTCTTCAGAAAATAAGAAGGAACAACCCACTGAATCACACAACATGGACAAATCTCAAATCATATTGCTGATGGAAGAAACCATTCA

ST5	93 A ---	---	CTGTGGGAGGAAACAAATTGGTATATTATACAAATGGAATACTTTCAGAAATAAGAAAGGAA CAACCACCTGAATCACACAAACATGGACAAATCTCAAATCATATTATGCTGATGGAAGAAACCACTTCA TAAGAATACACAGTACAT
ST6	48 C ---	---	TTAGCTACTTTTCAGAAATTGAAGGAGAAAAATGCATTATGTGGACTGAACCGACTTTTCTAAAGCTCT GAACAAGCTTTTCTTCCCTTTTGCACAACAGACAAAGCAAGCCACATTTTGCATTAGACAGAT
ST8	158 A ---	---	GGACAGGACCTCTATCCCGCCTGGTGACAGAGCGGTGATGGACTGAGGCCCGGAGGATCTGGGOC CTCTTCAGGGGCTCTCCAGGACCCAGAGCTGTCCTGCTTTGAGTTCCCTAGAGCTGTGGGGCCA GATAGCTTCTGAGTTGCAAGCAGCATGGAGATTTGGACACTGTGTGCTTTTGGTGGGT
WI-18740c	104 GT ---	---	TCCTCAATTTGGGGATGATGAGAAAGAAATGATTTGGGAAAAATTAAGTAACAACGACCTAGAAAAAGT GAGAACAAATCTCAATTTACCATCATGTATCCAGTAGTG[G/TAATTCATTTTGATGGCTTCTATTTT TGGCCA
WI-18740b	96 CG ---	---	TCCTCAATTTGGGGATGATGAGAAAGAAATGATTTGGGAAAAATTAAGTAACAACGACCTAGAAAAAGT GAGAACAAATCTCAATTTACCATCATGTATC[C/G]AGTAGTGGATAATTCATTTTGATGGCTTCTATTTT TGGCCA
WI-18985a	105 CT ---	---	CCAAAGTCTCCTGTTCGCTCATAAAGAAAGTTTGGGATGGGAGAGAAATCCAGACCATCTTGGGGCA GCCAGGCCCTTGCCCTTCATTTTACAGAGGTAGCACA[C/TT]GATTCACACAAACCCCTTCCCC TTTTAAATGATTTCTGTTCTAATGCCATAGATCAAGGCCTCAGAACCATTTGTGTGTTTCTCTT TGAAGCAATGACAAAGCACITTTACTTTACCGTGGTTTTTGTCTTTCTTAT
WI-18746	114 GA ---	---	GCCAGCAGCTGAAGTCTCTTTTCTCCTCTCGGCTGGAAGAACATCAAGATACCTTTGCGTGGATCA AGCTTGCTACTTGACCGTTTTTATATTACTTTTGTAATATCTT[G/ATCCACATTTCTACTTCAGCT TTGGATGTGGTTACCG
WI-19112i	212 GA ---	---	CCGTGTTACACACACACAAATGGCAAGCATAGTCGCCTGGTTACGGCCAGGGGGAATATGCCAAGG GACCCCTTAATGGAACACACAGATCAGTAGTGTCTATCTCATGACAAACCACAAAGAACCGGACACAAA TCTTTGCGAGATTTCTTCTAGTGGCTTAGAAACATGGCTTTTAAAGAACACGGTGATATCTTTGAG GGTGACAAGGG[G/AT]CTCTTCAAAACAGTTCCATACCAACTGCTTTGCTCTAG
WI-19092	232 AC ---	---	TGGTGGCTGGCTAGCTAGTTTCTACAGAACATAATTTGCCCTCTATAGAAGGCTATTCTTAGATCATGT CTCAATGGAACACACTCTCTTCTTAGCCTTACTTGAATCTTGCCTATAATAAGTAGAGCAACACAC ATTGAAGCTTCTGATCAACGGTCTGAAATTTTCATCTTGAATGCTTTGTATTAAACTGAATTTTC TTTTAAGCTAACAAAGATCATAATTTTC[A/C]ATGATTAGCCGTGTAAC
WI-19057i	175 GA ---	---	CCCATTTATTAGCCAGTGATGTCTCAAAGAGTAGAGGAGCGTCTACTGGTCTTTCAACTCCTTCA GTCTTCTGACGGCGGACTTTACCGTGACAGCGGAAGTGGTATTGTACGTCAGGCACCGCAGCCACTG TCTTCATGCAGGAACACACAGTGCCAGATCCCCACAGCTC[G/AT]CTCTTCATCTTGGTTTGGCCACA

WI-20103	168	CT ---	---	TGGGACTTCCAACCTCAGAGGATGTGGGAATCCAGCTCAAATGATACAGGATAAACTGGGATGGGCT AGGATGGACAGGCTGTGGATATGGAGTCAATGGTCAAGTCTTATCCAGATGGCTCCAGGTACAG TGGGCTTCTGGGCTGGAAGCTGGGTCTCCCA/C/TTCATTCTGCTCAAAGCTTCTTGAAGGAGC TGGTTGACTTCAACTTGCTAGAGCCTAGCCTCATCTTTCAGTCAACTGGGA
WI-20441	111	GA ---	---	GCCTTACCCATTTGCACATATACATATGCACCCTTTGCAGTGGCAACATATATATCCACACTA TAAACATACCACATTTATAATCTTGTAGGACAAGAAATGGA/GA/TTGAATAAGTACCCCCCAA CATATACAAGAAAGTTAGCATACITACCCCGTTTTTCACTACATCAGAGGCAAAATAAGAAATCTTT TAAGAAAATCTCAAGACTGGCTCATGGCAAAATGAATATGCTAAATTTGGGG
WI-19911b	116	AG ---	---	TGGTTACAAAACCTAAGCCCATATACAAAATTAGGAACACATTTAGATGCCCTCTTTTGAAAGAACGT TTTAGTCTTTTTTAAACTGAGTTTAAAAAAAATAACAATGCAATTTTTTA/GIACACTGTTTTTGAAA ACTTAAAGTGCAGCAATA
WI-20613c	165	AG ---	---	GTCTCAAGGGGGAGAAAACCTGGTCTTTTATGTACAAAGCACAGATGTAGGTACAGTATATAAACA GATACGTAGTACATCTGTAGTATTAATGGCATGGGAGGAGGCAGTTAGAAAAACATCTAAAC AGCTCCTTAGAAGGCCAATAATAAAGTTGGA/GA/GIAAGGGAGTTTCCACGCGCAGCGGTGTGAGC TGC
WI-20613b	156	AC ---	---	GTCTCAAGGGGGAGAAAACCTGGTCTTTTATGTACAAAGCACAGATGTAGGTACAGTATATAAACA GATACGTAGTACATCTGTAGTATTAATGGCATGGGAGGAGGCAGTTAGAAAAACATCTAAAC AGCTCCTTAGAAGGCCAATAATA/CIAGTTGGAAAAAAGGGAGTTTCCACGCGCAGCGGTGTGAGC TGC
WI-19984	47	AG ---	---	CAGTAAAAGAGTGATTCAAGTTGCAGTAATACACTGACAGGTAAATA/GI/TATAACATTAGAAAA GCAAAATCTTTTAACTTAAGGACAGACTGAACCATCAGGTATGGTCTGAGATCAAGTAATACAGG TAGGCAAGAGTTTTTCCACACTGGAAAATGAAGGCAGTTTTTCCAAATACTGTGAATTTACAAACAT TGGGGGAAGG
WI-20122	135	TC ---	---	GCCAGTTGGAATATGGCCTATACGAACCAAGAGTGTATACAAAATGGAAGTGGTCAATCAGGCAATA ATTGTTTCTTGGAACTCTGCACCGACTGTCCATGCTGTGGGGACTTACACATTCAGTTTGACAGI T/ITGAAAACCAACTGGAGCTGCTTTTCCAAAGAAATGTTCTGTTGCTCTCAAATAGGAATTCATG TTATTCTTCTTGCCTTAAGCTCTTATATCTTTCAAATGACCTAAGCTGA
WI-18846a	49	GA ---	---	GAGTGCCATACCTTCTCCAGGCCCTCTGCCCAAGAGCAGGAGGTGCCTG/GA/AAAGCTGGGAGCGT GGGCTCAGCAGGGCTGGTCACTCCCATCCCGTAAGACCTCTCTTCCCTTCTCAGCAGGCCAAACATG GCCAGACTCCTT
WI-18959	123	GA ---	---	AGCAGTGGCCTTATTGCATCCCAACACCGCCTTTCACACAGGCTGCCTCCCTTGTGGCAGCAACGGC ACAGCTAAITCTACTACAGTCTTTTAAAGTAAATGGTCGAGAAAAGAGGCACC/GA/GGAAGCCG TCCTGGCGCCTGGCAGTCCGTGGACGGGATGGTCTGGCTGTTTGAATTC/CAAGGAGCGAGCAT GTCGTGGACACACACAGACTATTTTAGATTTCTTTTGGCTTTTGCAACC

WI-20146	31 T C ---	---	---	TGAGTCTTCTGTAAATTCATTGAGCAGTTAGCT/CJCAITTTGAGATAAAAGTCAAAATGCCAAACACTAG CTCTGTATTAAATCCCATCACTACTGGTAAGCCTCATTTGAATGTGTAATTCATTAATACAGGC
WI-18922	74 G A ---	---	---	TAGGAATTGGTTACAGCCTGAGGCAATTAGACACTTTGGAAGATGGCATAACCTGTCTCACCTGGAC TTAAGC/GAJTCTGGCTCTAATTCACAGTGCTCTTTCTCCTCACTGTATCCAGTTCCCTCCACAGAG GAGCCACCAAGTTCTC
WI-18763b	53 A G ---	---	---	TTTCTGTGTTGGGGTCAACCGTACAATGGTGTGGGAATGACGATGATGTGA/GJATTTAGAAATG TACCATAATTTTGTAAATTAATTTATGTTTTCTAAACAAATTTATCGTATAGGTTGATGAACGTCA TGTGTTTTGCCAA
WI-18763a	38 A G ---	---	---	TTTCTGTGTTGGGGTCAACCGTACAATGGTGTGGGA/GJTGACGATGATGTGAATATTTAGAAATG TACCATAATTTTGTAAATTAATTTATGTTTTCTAAACAAATTTATCGTATAGGTTGATGAACGTCA TGTGTTTTGCCAA
WI-18771b	75 G A ---	---	---	CTCATTTCCATGCCATTGTGGAATTGAGCAGAGAACCTGCTCTCGGAGGATGCCTAGAAAGATGTTGGG AACAGAA/GAJAAATAAAGTGAAGTTAAGGGGGACTTAAACTGCTGAATTCACCTGTGGA
WI-18771a	57 A G ---	---	---	CTCATTTCCATGCCATTGTGGAATTGAGCAGAGAACCTGCTCTCGGAGGATGCCTAG/GJAGATGTT GGGAACAGAGAAATAAAGTGAAGTTAAGGGGGACTTAAACTGCTGAATTCACCTGTGGA
WI-18820	70 T C ---	---	---	GGGAAAATTTGAGACGCAATACCAATAGTATGGAATTTGGTCTTGGTGTGTTGATGAATCTGAG GCC/T/CJTGATTAAATCTTTCATTGATTGTGATTTCCTTTTAGGTATATTGCGCTAAGTGAAACTT GTCA
WI-18742b	51 C T ---	---	---	ACAAAGTCCTGTAGCCCCCTACCTTCTCTGTTTTCACCTTTGCCAATGA/CJATCGGGTTGGTTT TCTTGATTATTAAACGGTTGGTTTCTCTTTTCCACGGAGGTTCAAGTAAAGCCGCTGCAGGAGA GTTTTACC
WI-18882	94 C T ---	---	---	GTGTGTCCAAAAATGGGGTCTGCTCCTGCTACCTTGACCCCTTCCCTTTCCTGCTTCTCTCCTCATCA TCATTTCCCAACAACATCCTCTGCCA/CJ/JACACAACAACAAACGTAAAGTTTCATTTGGGCCAAAAATTGA GC
WI-19970b	167 G A ---	---	---	TATAAGCCCGAGTCAACAGGACGGCTGTCTGGCCACAGACAGGGGTGCCTGTGGAGCCTGCCACCC GGCCCCGGCAGTGCAGTCCAGCGGGGAGGAGGCTGCCCTTCTGCCAGTTCCCTCACTGCGGGGAOC AGCAAGGCCCTTCTCACTGGTTGGTCAAAG/GAJTAGTCACCTTGGCCTGGTGATCCACAGAGGA TGTTGTTCAACCCAGAAATCTTTAAACGACTGACCTTCCCTTAAAAACAGA
WI-19970a	126 T C ---	---	---	TATAAGCCCGAGTCAACAGGACGGCTGTCTGGCCACAGACAGGGGTGCCTGTGGAGCCTGCCACCC GGCCCCGGCAGTGCAGTCCAGCGGGGAGGAGGCTGCCCTTCTGCCAGTTCCCTCACTT/CJGCGGGG ACCAGCAAGGCCCTTCTCACTGGTTGGTCAAAGGTAGTCACCTTGGCCTGGTGATCCACAGAGGAT GTTGTTCAAAACCCAGAAATCTTTAAACGACTGACCTTCCCTTAAAAACAGA

NI-19042	193 A C ---	---	---	TTTGTGAGTGTGCCTCTCGCAATGCCTCAGTAGCATCTCAGTGGTGTGAAGTTTGGAGATAGATG GATAAGGGAATAATAGGCCACAGAAGGTGAACCTTTGTGCTTCAAGACATTGGTGAGAGTCCAACAG ACACAAATTTATACTCGGACAGAACTTCAGCAATTTGTAATTTATGTAATAACTCTAACCA[A/C]GGCTG TGTTAGATTGTATTAACTATCTCTTTGGACTTCTGAAGAGACCCTCAAT
NI-18984	208 A C ---	---	---	ATTGGCCCTGTACAGTTTGCCTTATTATAAATTCATTAAAAACACTACAGGTGTTGAATGGTTAAAA TGAGGCCCTCCAGTTTCAATTTTCAGTTATTTCTGAGTGTGCAGACAGCTATTTCGCACTGTATTAAAT GTAACCTTATTATAATGAATAATCAGAAGCAGTAGACAGATGTTGGTCAATACAAATATTGTGATGCATT TATCTT[A/C]ATAAAATGCTAAATGTCAATTTATCACTGCGCATGTTTGACT
NI-18851	90 T A ---	---	---	GCTCAATTGGCGATTGATTCAGTGCACCAATGTAACAGGGTTGGTAGTTACTCATTTTGAAT ATACCTTTTCCCTTATTGTAATCTT[A/G]ATAATAGGATCCTGGAAATGAGACCTGGTGGAA
NI-18821b	76 T C ---	---	---	TCAACTGCAGTGTGCTTCCCTCCCTATAGGGCTGGAATCTGTAGGAGCCCTCTCTCGGAGGCC ACAGAGGCT[C/G]GGGGTAGCCATTGTGCAGTCATGCCCCGGGGAACTTGCCAACCTTCGTGTCTAG GTGCTGTGT
NI-18821a	69 C T ---	---	---	TCAACTGCAGTGTGCTTCCCTCCCTATAGGGCTGGAATCTGTAGGAGCCCTCTCTCGGAGGCC A[C/T]AGAGGCTGGGGTAGCCATTGTGCAGTCATGCCCCGGGGAACTTGCCAACCTTCGTGTCTAG GTGCTGTGT
NI-19021a	20 C G ---	---	---	ACTCCTCTGCTGCTGTCCAT[C/G]ACTGTCTTTGAACCAGGAAAGTCACAGAGTTTAAAGAGAA GCAAAATTAACATCCTGAATCGGGAACAAAGGTTTATCTAATAAGTGTCTCTCCATCACGTTG CTACCTTACCACACTTCCCTCTGATTTGCGTGAGGACGTGGCATCTACTACGTACGTGGCATAAC ACATCGTGTAGCCCATGTATGCTGGGGTAGAGCAAGTAGCCCTCCCTCTGTC
NI-18908	70 G C ---	---	---	TGGAATTCCTTTCATCTGGAACCATCAGAAACCCCTCACACTGGACTTGCAAAAAGGGTCAGTA TGG[C/T]TAGGGAACAACTTCCATCCTTGAGTCAAAAAATCTCAATCTTCCCTATCTTGGCACCC TCATGCTGTGTGACT
NI-19037b	155 A G ---	---	---	CACGGTTCTCTGCATCGTTACCAGAGCGCCTTCTGGTCTAGCCACGCCCTGTATGACCCGCAATA TCCCCAAAGCTTTTGGGTCTCAAGTCATGCCGAATTTAGATGCTGGTCATTTCTGGAGAGGGTC CCCTCCCTTACGAACAC[A/G]AAACCCAGCCACATGACTAGCACGCTGAGCTCTGCAGGGACCA GTGCAGGCACTGGGGGTGGAAAGTGTGGTGACACAGTGAATGGGAGTGG
NI-19037a	47 C A ---	---	---	CACGGTTCTCTGCATCGTTACCAGAGCGCCTTCTGGTCTAGCCACG[C/A]CCTGTATGACCCGCAAA ATATCCCCAAAGCTTTTGGGTCTCAAGTCATGCCGAATTTAGATGCTGGTCATTTCTGGAGAGGG GTCCCTCCCTTACGAACACAAACCCAGCCACATGACTAGCACGCTGAGCTCTGCAGGGACCA GTGCAGGCACTGGGGGTGGAAAGTGTGGTGACACAGTGAATGGGAGTGG
NI-19064	66 T C ---	---	---	TTGAGGAGGTGGGTGAAGTCTCTCTGGCAGGGATTTGTGACACTGCATTGCTGGGCTGTGTCTT C/GGGGCTCTTCTGGACCTTGACCGTGGATACAGGCCCATGTGCCATGTGGTATTGGGTCTCTGGAGGG TGGGTGAATAAAGGC

WI-18972a	112 A G ---			AGCCTGTGGCTTATGTCAACCAACAGAGGGGTCTGAGAAAGTCTGGCTGCCCTGGATGCCCTCGCC CCCTCCTGGAAGGCTCTGCAGAGATGACTGGCTGGGGAAGCAG/GTGTCTGCTGGCCATGGAGCC TCATTGCAAGTTGTCTTGAACACCTGAGGCCCTCTGTGGCCACGAGGCACTACGGCTTCCTCTCC AGATGTGCTTTGCCTGAGCACAGACAGTCAGCATGGAATGCTCTTTGGCCA
WI-19016b	184 C A ---			GTTTGCAACCAACATGTGCTCTTTTCAGTCATTCACCTGTTTAAATATGACATGGTAGAGAAGATAAG GTTTATGGCAGGTAATTTTGTAAATGTGATTAACGAAGTTCAAAGATTAGAATAACATCTGTGTGTC CTGAAAACCTTAGATACATAGCCGACTGTATACAGAGGTTTCATCTCAA/C/A/CTCAACACTATTGAC TTTTGGGCTGGATAGTTCTGTGTGGGGGTTTGTCTGTGCACTGTAG
WI-19016a	161 C T ---			GTTTGCAACCAACATGTGCTCTTTTCAGTCATTCACCTGTTTAAATATGACATGGTAGAGAAGATAAG GTTTATGGCAGGTAATTTTGTAAATGTGATTAACGAAGTTCAAAGATTAGAATAACATCTGTGTGTC CTGAAAACCTTAGATACATAGCCGAC/C/TTGTATACAGAGGTTTCATCTCAAACCTCAACACTATTGAC TTTTGGGCTGGATAGTTCTGTGTGGGGGTTTGTCTGTGCACTGTAG
WI-20096	21 T C ---			GGTTTGGGGCAATTTATTTCT/C/GATAGAGACTGGCACAAGCTTTGGGCTAAGGACACCCGCCCCCC ACCTCACTAGAAACAATCTCTCGCCAGACTTG
WI-19591b	156 C A ---			TGGGGCAATTTTAAACAAACAGGCAAAATATCACATATACCTGAATATAAGGTAACCTCAAGCCATG AGTAAAGATTAAAGCAGTTACTTTATTTGAACAAGGAAGTGGCATAAGCAACTCAGTGTGCCC CTTAGGGTGGGAGCTCTCCG/C/A/CTACCACCTCCCAACCCCAAGGCATCATTTTGGGAGAAAAA GTGCTCTCTATCTGGCTAGCTGTGTGTAGGGAATGCACCTTCTTACACGG
WI-19591a	45 T A ---			TGGGGCAATTTTAAACAAACAGGCAAAATATCACATATACCTGAAT/AJATAAGGTAACCTCAAGC CATGAGTAAAGATTAAAGCAGTTACTTTATTTGAACAAGGAAGTGGCATAAGCAACTCAGTGTGT GCCCCTAGGGTGGGAGCTCTCCCCCTACCACCTCCCAACCCCAAGGCATCATTTTGGGAGAAAAA GTGCTCTCTATCTGGCTAGCTGTGTGTAGGGAATGCACCTTCTTACACGG
WI-20310	125 G A ---			TCCTCCAGCTCTGTCATCCTTGTCTTGAGGGTCTGTGTTACAGGCCCTCCAGGCATGGTTTCTTCAT TTAGGTAGGAACAAAGGCCAAAGAACATACAGCCCAAGCTCTCTAGAGGCTCCA/G/ATCAGAA CTGACCCCTTAACTACAAAGGAATCTTGGATGAATATTTTAGCGGGCTTCAGGAGCAGGTAGC AGAGCCAAAGTGCACACTCAGGCCATCTTCTCCCAATGTCCTCCCCGGGG
WI-20860	224 G A ---			CTCTCCCTAAGGAGCCTTGGCCTTGCAGCCCCCATTCAGCAGGGATGGAAGTCACAAGACAATGAGT GGAGCCTCATGCCCTCCCATGAGGAAGCCCTTAGTATTGCTGACATCTGCCCTTATCCTGTCTCCT CCCCAGTGTGTACACTTGGGCAAGCAGAGTGTGGCAGACCCAGCCTTGAGAGCTCTTGTAGAAC GGAAGGAAGGGCGGTCTT/GA/GGTGATGGCTTCTGGCTCTCTGGCTT
WI-19359a	39 T C ---			GACGTGGACAAAGGAGGTTAAATGAATACCTTTGTTTGT/C/CATGTTCAAAAAAGAGATTAAAT ATTTGTGACTGCATCTGTGAATGAAGACACTCAAAAAGCCATGTTTCCAACTTAGGTTAATAATAA GGCTATTTGCCACCCACTCTCGGGCATGCTGCAATATCTCTGGGCTCAAGTGGGAGGCCACGTG GGAACAAGGCCTCAGAAACAAGGACATGCAGCCTCCCTGAGCCAGTTCCT

WI-19766b	93 A G ---	---	TGGCCTCAATGACTGGTACATTGGAGAAGCTGTGCAGCAGCATCCTTTCTGTGGTGGCAGGGCAGGAGATGAACCATAGGAGCCAAAGTC A G G ACAAACAGAAAGGACACCAAGCCTGAAACCCCTCGGACAAACAGCAGAGTTACAGCTGAGGGATGTCCTGGAGGTTCTGACCCATGAGAGGCCCCCTCACCTCCTTCACCCCTCC TCC TACCACCAAGCTCTCCGGCAGTCATGGACTTAT
WI-19766a	31 G A ---	---	TGGCCTCAATGACTGGTACATTGGAGAAGCT G A TGCAGCAGCATCCTTTCTGTGGTGGCAGGGCAGGAGATGAACCATAGGAGCCAAAGTCAGACAAACAGAAAGGACACCAAGCCTGAAACCCCTCGGACAAACAGCAGAGTTACAGCTGAGGGATGTCCTGGAGGTTCTGACCCATGAGAGGCCCCCTCACCTCCTTCACCCCTCCT TACCACCAAGCTCTCCGGCAGTCATGGACTTAT
WI-20512d	126 C G ---	---	CTTCTCTGTTGGCTTTGCAATTTGCGATTTGGAAAAACCACCTTGGAGAAGGGACTTTCTCTGCAAACCTTAAAGACTGGTTAAATTACAGGGCCTAGGAAGTCAGTGGAGCCCTTGACTGA C G AAAGCTTAGAAAGGAAGTGAATGCTTCTTTGAATATGGATTTAGGGCGGGCGTGGTGGGCTCACGCCTTATTAATCCAGGCACGTTGGGAGGGCCCAACGCGGGTGGGATCACCTGA
WI-20512c	59 T G ---	---	CTTCTCTGTTGGCTTTGCAATTTGCGATTTGGAAAAACCACCTTGGAGAAGGGACTTT G T CCTGCAAAACCTTAAAGACTGGTTAAATTACAGGGCCTAGGAAGTCAGTGGAGCCCTTGACTGACAAAGCTTAGAAAGGAAGTGAATGCTTCTTTGAATATGGATTTAGGGCGGGCGTGGTGGGCTCACGCCTTATTAATCCAGGCACGTTGGGAGGGCCCAACGCGGGTGGGATCACCTGA
WI-19599	230 C G ---	---	GGGCTTAAATTCCTCTGTTGGGACTGGTCTCTCCAGTTTACAGCAAGGATCGACCCCTTTTCCATAACCCCTTCTACATTGGAAAGAGCAGACACCTTGATACAGATGGCTCCGTAAGTCTTTTAAACGGACAAAGGTAATCACAGCTAACAAACGTGATGTTGGCTCACACGTAACCAACACCTCTTTTCAGAACAGAGAGCGTTAAAGTAAAGGGCA C G TTCCAAAGAGTAACACTGCTA
WI-20679	82 T C ---	---	TGTTTGAATAAAAATTTCCATGGTCTTAATTGAACGTGATGTTACTTTCTTTTGAATATCCTTTTTCATTAAAAATAAT T C TCTAAACCACTCTATGTGTTCAACCTTCTGTTTAACTAAGATATGGGTTTTGGAAAGGCCACAGTCACCAAGTCCATGAAGTGGCGAATTGGTCTTGTGTTGGAAAGCTCTCAGGGTGTTCCTCCAGAAA
WI-19909a	29 T C ---	---	CCAGAAATAAGCCCTGAATATTCCTTTCT C T TAAAAATAAATTTTCTCTTCTTCTCTCCAAATAATCTTAAATGAACCTGTTCTAGTCTATTTTAACTAGGCAATTATAACACTACCTAGGCGGGTTTTTCTCTTATACCTTGTCTGTACTGTGGAACTCACTAA
WI-20341	221 G C ---	---	TTGAGAGGCTGAGAGAAGGCTGTTGAGACATTGTAATAAGTGTCTAGGGGCATGAGACATTAGGAAGGCCACAATTATGAGTAATGAAATGTGGAGGCTGATGAGAAGCTACTGCTCCATTTGTTAGCAGGAGGAGGAAAGTGATCTGGGGTCTCTGGCAGCAAAAGCGTGTGTTAAATATTTGGGTGACGTCATGCATCCCCCATGCATTGGTTT G C ATGCTCTCCAGTGAGCTGTGGGCAAGTCT

WI-20113	60	T C ---	---	TTCTGGTACATGGTAAGTGCTCAGTATTACTGAGTGAATGAGCAAGAACCTGAAATACTGT[C]GGA AACAGTAAAGCAAAATTACCACACAAATTAGGAGGAATTAATTTTCAGACATAGGATATTTAAACAT CACTCAATACTGGAGCATGATTCAGCAATAAATTCIATTCATAAACCCAGGTAGATAAATGTCCACA GCTTTAAATATAGTTAAGTACAGTTGATCCTCGTTATTCAITGGATTCCGTAIT
WI-20895	107	G C ---	---	TGATGGCAAGTACAAAGGCTCTGAAAGAACAGAGTAACAAGAGCAGCGCAGTGCGGCTGTGGC CACTCCCAAGGAGGAGCAACACTTGACTTCATTAAAGGCAAG[C]CTTACTCTGTTACTTTTCCCTC CCACATAGTTTAACCAAAATAGAAAGGCATTCTATTCTCACACTACTGCTCTCTAAAGGTCCTAGGAA TATAACTGGTACTATAGGCAACACAGATGCA
WI-20721	72	T C ---	---	CCTGCAATCACAAAAGTGGAACACTAGTTGATATTTTGAATCATACTTGATTTAACCCACCTTCAGAAA TTCTA[T]CJAACACACTAGCAACTTCCCTTTTATCAGA
WI-19415c	161	A G ---	---	CTGGATTTTAATAATTTCTGGCCTAATAACCAAAATGTAATCAATAAATTTGGTCAATATCTCCACCTC ATTTCTGCTAACATGTTTGGCAAGATCCCTAAGTAAGGTATTGACGACTGAGACTAGTCCGGCAAA GTCTGAGACCCCTTAGCTGATCTCAT[GA]AGTCCACCTCATGAAGGAGATGATTCAACATCTCAA GCTAAGGTATAAGTGTGGACATACAAAGGCTTACAAGTTTACACTTCCIG
WI-19348c	103	C T ---	---	GCTGCTCACTGGTAGCCAGCCAGCTGCAGGATGGTGGGTAGCAAGTACGATGGGCCATGCACCTTCTG GCGGTGATGAAGAGACTGTTGGTCATGGCGGTGA[C]TGCTCTCTCCAGGCTCATATGGATGTCCT CGAGTTGCACAGGGAACCTGCTCTGCTGTGTAGAAGCTTCTCC
WI-19348b	98	G A ---	---	GCTGCTCACTGGTAGCCAGCCAGCTGCAGGATGGTGGGTAGCAAGTACGATGGGCCATGCACCTTCTG GCGGTGATGAAGAGACTGTTGGTCATGGC[GA]GTGACGTCTCTCCAGGCTCATATGGATGTCCT CGAGTTGCACAGGGAACCTGCTCTGCTGTGTAGAAGCTTCTCC
WI-19635	98	A T ---	---	ATTAGTTCGTGTGGGCCACATTCAAAGCCATCCACACAAAGCTTCTGTAGGCCATTGTAACACAATG TTAAAGGTACAGTAAAAATACAGTATTAT[AT]ATCTTATTGTGTAGCACGGCTGTGAGGCTCATT GTTGAATGAAGCATCCTTAGGCAGCACGTGACTGCTGCATGCAGATATGTGTCTGAAAGAACTTTGCCTT T
WI-19641a	46	A G ---	---	TCCAAATTTTCAGAAAACATGTTCCATGTTTATTGTGATAAGCACTAG[AG]TATTATAGTCTCATGTTT TTAATTTATGAATAACGTCTGATTCATTTGATTTTGTTATTTACAGAAGATGTGAGGGCTATCTCATT AGTTATTAAATAATGGATCAGAGTAGTAAGTCAAGAATAAGTGCATAATGTGGTTTAAATTTTAAAA AATACTCAGAATGAGGTAGTATTTTAAATTTTAAATTCATCCACCCACCTTG
WI-19642b	52	C A ---	---	ATATAGAGTACCATCCATGGTTTCAAGCATGGCCTGGACACATTATCCCCC[C]A[AGGGTAAACCAG GACTATTGCATGAGCATCTTTAATACGTAATTTTGTATGGACACAAGTTTTCATGCTATTA
WI-19673b	180	C T ---	---	TCTGCCATGATCACATTGTGATGAAGAACAATGATGGTCACTAGTAGGTAACCTTCTGTGTCATTGCGCT TACTCTCAGTGAGGTGCTAGTGATTTACCTACCCCTGCTTTTGCATCACCAGCTGTAATCTAATAGT GAAAAGGCCAAATGATGCTCAGTATCACTGTGAAAACATTTTTC[C]TCTTGGACCAGCTGAAAGAA TCTTGAGGAGCCTGAAGGCTTCAAGGTTCAAGTCCACACGTCAAAAAAACACAGCCC

WI-19673a	35	G A ---	---	TCTGCCATGATCACATTGTGATGAAGAACAATGATG[A]TCACTAGTAGGTAACCTTCTGTGTCATTG CCTTACTCTCAGTGAGTGCTAGTGGATTTACCTACCCCTGCTTTTGCATCACCACCTGTAATCTAAT AGTGAAGAGGCAAAATGATGCTCAGTATCACTGTGAACAATTTTCCCTTGGACCAGCTGAAAGAA TCTTGAAGAGCCTGAAGGCTTCAAGGTCACACGTCACAAAACACAGCCC
WI-19724	35	A G ---	---	TTTATTTGGGAACAAGGATTGTAATTTGGGTA[A]GCTGAGTCACGGTGGCCCTGAGTAGTGTC CTAGAAAGCAACACGAGAGTTTGGTTTTTCICTT
WI-19307	196	T C ---	---	TCCTCTCCCCAACTAGATGGTATTGATCACTCTGCCCAAAATGGTACCCCTTCAGCAAGAACTG CAAGCCCTTCTTGGATTGCCCTCATGAGAAATGGTGGCTTGGGATGGAGGTGACATTCCTTGTCTGT GGTGAACCTGCAAGAAAGGAAACCAAGCAATGATTCCATAGAGGCCTTTAAAGAGAGACCCG[T]CJGG AAATGGGCCATGGTCTAATTTGGTGTGAAATAAATAACCTCTTTGGCTG
WI-19269	85	A T ---	---	CTTCCCTCATCCCTCTCCACCACACCATCCCGGAACAAGTGCTCCAGGATCCCTGCCACTGGC CATTTTGGAGTGTGCTC[A]TJTTGGGTAGCAATGTGGAACCAACCAGGCCCTTGTGGAGAAAATGG AGGGGTTGAGGGAGTCCAGGAGGGCTTATTGAGGGCTTTGCCACTTGTCTCATAGGCGAGCTCG ATCTCCTCATCATCTGGACAGGTGGAAGCGAATTCCTCCCGGGCGTAGGCA
WI-19946	122	C T ---	---	CAATGGACTGAATGAGTGGTCTGGTGGGGTGGGCGCACACACCTTCAATACACGTCAGGTGG CTTCCAGTTTGTAGAAAACAGAAATCTGCATCTCAGCCTGAGACGCACAGAGAGT[C]TJCTTCCCTG ACCCAGACGCACTCAGAGCCAGGTCCTGTTTCAAAAACGCAITTAACCTGCGCCAGAGAGTTCAAC CGTAGGCATCTTAATAAATACTCCAGCAAAATGTGGGTACGGTTACTAA
WI-19956	141	G A ---	---	CACAGCATGGTGTAAATAGCATCAGATTGAATGAAAGTTTGTAAATGCAACCATAAATAATTATA ATAAATATACATCAAGTAACCTTACAGCACACATTTTGTAGGCCAAGGTTTGGATCTGTCTGGACCT CAATG[T]G[A]CTCTCGGAGAGCAGCCAGCTTAGCAGCAGATACCTTACAGCTTGTCTACTCTCAA GTGATGGCCACAGAGCTTCTGAACCTCTCTGGGAGGTAGCTGACAAG
WI-19076	40	G A ---	---	TTGGTTGGATACCTTGTCTGGAAGAAAAAGCAGTTTAA[T]G[A]GTATTCAAAATACCTTTTAAAAA GTATTCTAGCACAAAGATTTTCTGTAACCTAGATTATGTTGTAACCTTTTCTAAATCTTGTAGGAG TGTCGGTTGTTAAGAACTAGAGCTTATCTCAATCTATCTTGGCTCCTGAAAAAAGTGCAGA AAGGCACCTGAAAGCTGTTTCTTAAAGATATGGGATTTCTTTTATCTT
WI-20218	26	T C ---	---	CCACACACTCTGGTTTTATAAGCTAT[C]JAGGACAGAGCAGAGATGGAAGTGAACAGAGGTAG AAAAAACAATAAATTGGAGGGGAACAGTGGGATGCAGAAAAGATGACAACAGCCACATGTGCCCA GTCAAATACTTTTAGTCCCTGCAGCAGAAGATGCCAACCAAGTCTCTATACTGGCTGGGGATCCTGCC ATGGATGCAGGAGAAAAA
WI-20295g	154	T G ---	---	CAACCTTTTGAACAAGGGGACGTGAATTTCTGATGAAAGTTATCTTACCAAGTTTAAATTCATAATTG GGAATTCCTCTTTTAAATATCTCCAGGCTTGAATTTGGGAGGGGCTGGCTCTACCCCTTTCTTTTCCA TCCAGTCTATTGCCAGAT[G]CCAGAGAAAGCGGGGAAGCCAGCTCTCCAGCATAGCCACTGTGG GTGCGCTTCAOCTTCTGTGACTCTCTCATGCTGGGACTTGCTTTGGGG

WI-20361a	192	G A ---	---	CTGGAGTGTGACCTAAGTGACATTTTTTAAATGCCAAATACAGTAATCTCCAAGCTTTTAAATGGCTTATGCAAGATGACAGAATATGTGAAATCTGATGTCAGAGTTACACTCTGCACCTCCAAAGCTACAACAGTGCCACAGCTGAGAGGTTCCCTATCTCTACTACTGTGACAATTTAGC[G/A]ATCCTTC
WI-20572	75	A G ---	---	AAATGGGAAATTCCTAACTACACGAGACAATGGGTCTACAGTAGGCCCGGAGCCAAACCCCAAAATAAAACAGAACTCTTTTGTAACTAAGTCATACCTACTTTCTCTCTCAGAAATT[G/J]CATAAACATCATCTTTACAACATGGAGAAGCGAGGTAGGCCATAATTGTTCAAAATTCATCTTTCTCAAATTTAAATTTGTTTAAATCCCAAGGTGCTTATTGAATCTTCAAAAATAAACTGCCTATCAGGTATCATACCTGCAAAATGCTTCTAATATCTCTTGATTAT
WI-20588	133	G A ---	---	CATGACAAAAGACAAAGATCAAGGAGTAACATAAATTAAGTTGAATAAATAGTATACAGCAATCTTCACTTTTAAAGAAATGTGAGATCCCTTTGTTGGTTTTTATTTCCTTAAGTACAAAATGCTAAAC[G/A]GGAGCCGAGCTCTCCGCATTTCAGG
WI-20593	79	A G ---	---	TGACCTCATACTGGGTTCTGGTTAGAACACAGCCACTAGAACAACTCCAGTCTTTTTCAGTCTGTTGCTGACTTCAG[G/J]TTAAATCTGGGAATGAGCATGCAGCAATGCTCCACGATGAGGAAGAAAGCTGTTAAAGGAACCTCAGGATGTTGTAGGAAGGGGAGTGGAATGCCAGGCCTTCACCAGACTATCCAGAAGCCATTCCATGGGATTTTGGTCTGCATCTGTGAGACACTGAGCT
WI-19765	57	T C ---	---	TTCTTTGCCAAGCTGTTCTTCAAGTTATTCAGAACTGGGTGTATACCTTGCTCTCAIT/CJATGTATCTGTCCCTGTGCTTTTAGTTAGCAAGGTGTATGAATACTTTTAAAGTTTGTCTTTTCCCTCGTGGTATCAGTGAAATACTGATCTATCTCTGGCTAGGGTCAATTTACAAAATGGCCATGGAACTGAGCAAAAAGCCACGTGGGATAAAATCACTCACCATCGAGCCACCAAGTATT
WI-19066i	239	A G ---	---	TGACAAAGGGAGAGAGGGGAAATTTCTACTCATTTGCAAGGAAATCCTCACITTAAGCTTCAGTGAGCCACAGCACTTAAACCCATGAACCTTCAGCTGATCGTCTTAGCCAGTCCAATCTCTACGAGGAACTGGCATATGTTCTTGCGTTGGTCACCCCTGTAGCTGAATTACTTCTCCATATTCGGATGCTCAATTACAGTACCTTCAGGCAAACTTTTCTTAAACGCCCTTCACIT[G/G]GTTTCTTTTAA
WI-19066g	184	C T ---	---	TGACAAAGGGAGAGAGGGGAAATTTCTACTCATTTGCAAGGAAATCCTCACITTAAGCTTCAGTGAGCCACAGCACTTAAACCCATGAACCTTCAGCTGATCGTCTTAGCCAGTCCAATCTCTACGAGGAACTGGCATATGTTCTTGCGTTGGTCACCCCTGTAGCTGAATTACTTCTCCATATTC[G/J]GGATGCTCAATTACAGTACCTTCAGGCAAACTTTTCTTAAACGCCCTTCACITAGTTCITTTTAA
WI-19066f	148	T C ---	---	TGACAAAGGGAGAGAGGGGAAATTTCTACTCATTTGCAAGGAAATCCTCACITTAAGCTTCAGTGAGCCACAGCACTTAAACCCATGAACCTTCAGCTGATCGTCTTAGCCAGTCCAATCTCTACGAGGAACTGGCATATGTTCTTGCGT[G/C]JGGTCACCCCTGTAGCTGAATTACTTCTCCATATTCGGATGCTCAATTACAGTACCTTCAGGCAAACTTTTCTTAAACGCCCTTCACITAGTTCITTTTAA

NI-19066e	147	G C ---	---	TGACAAGGGAGAGAGGGGAAATTTCTACTCATTGCAAGGAAATCCTCAGTTAAGCTTCAGTGAGCCAC AAGCACTTAAACCCCATGAACCTTCAGCTGATCGTCTTAGCCAGTCCAATCTCTACGAGGAAGCTGG CATATGTTCTTG[C/G]TTGGTCACCCGTAGCTGAATTACTTCTCCATATCCGGATGCTCAATTAC AGTACCAATTGCAGGCAAACTTTTCTTAAACGCCCTTCACTAGTTCTTTTTA
NI-19066c	100	G A ---	---	TGACAAGGGAGAGAGGGGAAATTTCTACTCATTGCAAGGAAATCCTCAGTTAAGCTTCAGTGAGCCAC AAGCACTTAAACCCCATGAACCTTCAGCTGATC[G/A]TCCCTTAGCCAGTCCAATCTCTACGAGGAAC TGGCATAATGTTCTTGCGTTGGTCACCCGTAGCTGAATTACTTCTCCATATCCGGATGCTCAATTAC AGTACCAATTGCAGGCAAACTTTTCTTAAACGCCCTTCACTAGTTCTTTTTA
WI-19066b	87	C T ---	---	TGACAAGGGAGAGAGGGGAAATTTCTACTCATTGCAAGGAAATCCTCAGTTAAGCTTCAGTGAGCCAC AAGCA[C/T]TTAAACCCCATGAACCTTCAGCTGATCGTCCCTTAGCCAGTCCAATCTCTACGAGGAAC TGGCATAATGTTCTTGCGTTGGTCACCCGTAGCTGAATTACTTCTCCATATCCGGATGCTCAATTAC AGTACCAATTGCAGGCAAACTTTTCTTAAACGCCCTTCACTAGTTCTTTTTA
WI-19066a	72	C T ---	---	TGACAAGGGAGAGAGGGGAAATTTCTACTCATTGCAAGGAAATCCTCAGTTAAGCTTCAGTGAGCCAC AAGCA[C/T]TTAAACCCCATGAACCTTCAGCTGATCGTCCCTTAGCCAGTCCAATCTCTACGAGGAAC TGGCATAATGTTCTTGCGTTGGTCACCCGTAGCTGAATTACTTCTCCATATCCGGATGCTCAATTAC AGTACCAATTGCAGGCAAACTTTTCTTAAACGCCCTTCACTAGTTCTTTTTA
WI-20660	105	G C ---	---	TTTACAGCGAGTTTTTCCCGTCTCAATAAGTATGAATCTAAATAGATTAGGGTGAAAAGAAAATGTG TGCTAAATAAAATCTCCCTTTTGAATGTATATTTG[C/G]TTAATAAAGGGAAGCATTAAATATTA CAGACATATTTACAAAGTTCTGAACATGAGTGATTCATCTGTTTCTGTACAAAGATAGAACAAA AAGCTATCCACCGCGCCCCCAAAATACTGTTTAAACAACACTATGTTTTAAGA
WI-18768	120	C T ---	---	CTGCTGCCAGCTTCTCTTGGCCCTGCTCCAGATGGCGGTCTCTGGCAGGCTCCCTCAGTCTTCC TCCACCCGCTCTTCCCTTCCAGCGCTGCCTGCATGCATGTGCACCCCTTGGT[C/T]TCGCTCCATCGCC TTGAAAGCTCTGAA
WI-19087	37	A G ---	---	TTCCCCAGGGTCTGTATTGCAGCTAAGCTCAAAATG[T/G]TATTTAACTTCTAGTTGCTCTTGTGTTG GTCTTCTTCCCAATGATGCTTACTACAGAAAGCAATCAGACACAAATTAGAGAAGCCTTTTCCATAAA GTGTAATTTTAATGGCTGCAAAACCGGCAACCTGTAAGTCCCTTTTAAATGGCATGACAAGGTGTGC AGTGCCCCCATCCAGCATGTGTGTCTCTATCTTGCATCTACCTGCTCC
WI-18790	49	A T ---	---	GAAAGCCAGAGATTAGCCCCGCAATCCGCACTGTCAACCCAGGACAGAAATGTCATGGACAAGGGA TGAGCTTTACAAAGATGATGCACTTTGGAGATCAGAAAAATTCATATTTAAGCAAAAGTGATACAAACA CAGTGATTTGGGAATGCCT
WI-18987	35	G A ---	---	AGGAGGCTGTCCAGGAGTCTGCCAGCAGCCTC[G/A]GTGGCCAGCCAGACACTCACCCACCTTT CCCCAGTGCCCCCGTGGATCCTGGTCTTAGGCTGGACACAGGATTCAGAAAAGACACAGGCTGCACA GAAAGAGCCAGATGGACCTGAGTGTGGTGCAGACGCCCTACACTCAAGGCTGAGAGGCCCTCAGGAA AGTCA

WI-18919	26	CT	---			TGGATGAAACCACAGGGATTCCGGA[C/][G]CCACAGACCCCATTTTATACCTTCTACAGTG TTGTTTGTGTTGTTGTTTATTTTATCTTTGGCCATACCACAGAGCTAGATTGCCAGGTCT GGGCTGAATAAA
WI-18741c	64	GA	---			CTTCTGGTCAAGGCTTTGGACATCTCTCAGTCATCAGACAGAGTATCTCTGCTCTAGACCTC[G/A] CTGGAGTTCAAGCTTGAATTATATGCAAGTTAAATTTTACAAGCCTGGATGAGGCTACTGA
WI-18741b	38	GC	---			CTTCTGGTCAAGGCTTTGGACATCTCTCAGTCATCAGACAGAGTATCTCTGCTCTAGACCTCG CTGGAGTTCAAGCTTGAATTATATGCAAGTTAAATTTTACAAGCCTGGATGAGGCTACTGA
WI-18741a	23	TG	---			CTTCTGGTCAAGGCTTTGGACAT[GT/CT]CTCTCAGTCATCAGACAGAGTATCTCTGCTCTAGACCTCG CTGGAGTTCAAGCTTGAATTATATGCAAGTTAAATTTTACAAGCCTGGATGAGGCTACTGA
WI-19179a	170	GA	---			TCAGAAGCAGACATGGCATCTGTTCCCTTGGTCTGTTGGTGTGTACCTTTTACGAGACCTGAATT TTAGAATTGCCAGTCTGCCAGAGTGAGTGAGTAAATCTCCTTTTCAAGTAAAGATAGGCTATCTC AACACTGCTGAGTGATTCAATAAACATATCAACCA[G/AT]AGCATTAAACCCATTTTATTTCTGTCCTT AGTGTCTGAAGATGCTCACCAGTTTCTGTGATACAGTAAGGCAGCATGCT
WI-19212	46	TA	---			CCAAGTTGCATCCATGTTTGAATTTCTGATGAGACTAGAGTGACAGT[AT/AG]TTTTCAGAACCCAAATGT CCTCAGGTAGTTTGGAGCATCTCTATGAGATGGGATATGCAGATGGCCTATGGAATGCGAGCTGC ATAATTAAACACATTATCAAAGTCTCTTACAATTTATTTCCGCGAGCATGTCAGCTAAGTAGACCCA ATGGGAGAGAAATGCCGTCTTCTTCCCTCTTTTCTGCACTGCCATAT
WI-19183	210	GC	---			CTGTTGAAGGCTTCTCAGGCAACTCCAGCTTAAAGCCCTAGACAGGTTAAAGCACACACATTGGATG GCAGCATGGGTTTCTCCCATTTTATGGCATGAAATATGTGTTTGAATAAGGAACAAGCATATT CCTTTGCCAACAGCCTCACTTAAGAGGCTTTTGTGCTGAGTCAAGCAACACATTGCCTGCTGCCCC CTTGGAG[G/CT]GCAATTTGACCTGCTCTCACTGGTAAGGTGACTTGGTGGC
WI-20014b	214	TC	---			TTGAAATCCCAGTCTCTGGCCCCCAGGCGGTCTGTACCATAGATGTCTTCTCTACTGGGTC GTTCTGGCTTTTGTAGAACTTGGTCTGAGATGTTCTTCCCTGTCCATTACCATTCGATGTTCTTT TGTTTCAGAGCAATGTTCTTGATTCTGAACTGGAACCTGAACCAAGTTTGCCTTTCTCCTAGTCACC AAGCATACTT[CT/CT]CTGGCTCCCCAAGTACTTAAATGTTCTCATCTGT
WI-19041	198	TC	---			GTCTCCCCAGAGTCTCTGCACCCAGCCCTGTCTGCTGTAAGGGGATACAGAGAAGCTCCCCG TCTCTGCATCCCTTCCAGGGGGTGCCTTAGTTTGGACATGCTGGTAGCAGGACTCCAGGGCGTG CACGGTGAGCAGATGAGGCCCAAGCTCATCACACCAGGGGGCCATCTTCTCAATACAGCC[CT/CT] CCCTTGCGATCCCTATTTCAAAATAAAATTAGTGTGCTTGGCTGCTGT
WI-19135	20	GA	---			CAGTTACCCCTGCTTTGCCCT[G/AT]AAGGTGTCATCAATTTGTAATTTTAGTATTAACTCTGTAAAAAGT GTCTGAGGTACGTTTTATATATAAGGACAGACCAAAAATCAACCTATCAAGCTTCAAAAACCT TTGGAAAGGGTGGATTAGTACAGCACATTTGGCTTACAGTAAATGAAGTATTTTATTAACT GCTTTTGCCCATATAAATGCTGATATTTACTGGAAACCTAGCCAGCTTAC

WI-19236	54	G A ---	---	TACACAGAGGGTTCGCACCTGGACTCTGAGGCTGGGTGTGGAAGGGGAAAGG[G/A]GATGGAGAC CTGCTCCCCAGCTCTTCTGTACCCGGTTTACATGGGAACAGGGTTAACATCTGTGTAGGGGAGGT CACCTTACCCCTTTTTCATAGGGGAAGAGTGTACACTCTTGGCTATCTCAGGGGGAATGGGGAAAG AATCTTTCAAGGGCAAGAACTCGTGGGAGGATGCTGTGTATGTAATACT
WI-19144	222	G C ---	---	GTGCCAGTCTTCAGAAAGCAAGACTGCCCTTCAATCAGCCTTGTGACCTCCACAGCCTTCTTAAGG CTCAGCCCCACGGGACTCTGTGGCTGCCAGCTTGTGAGCTATCTATATTCATTTTCATAGCCAA ACAGGAGACCCCTTTGCAGGACTTGCACACAGGGAGGCTGTAGCCAGGAACCCCTCTTCTCCCTGGT CTGGCTCTGCTGGAGCG[G/C]TGGGAACCAACACCTTCAGTGTGGTG
WI-19139b	110	C A ---	---	CCCGTCTAAGGGAGAAAGCTAATGTTTTCCACAAGACTGAACAACGTGTATTTACACGAGGGTAGAC GGCAGATGCCCTGACAGAGAGTGGTTGGCAGACACACACTAG[C/A]ATTTTACGGGTGTGGGCAC ATGGGTGTGGCACCTGGACGTGTGCAGCATGTGGCGTCTCTGTGTGAAGCCACCGTGTCTCTTTGG GGGCCGCGAGATCTAGCATCTCTGAATCCTGGCTGTCGAGGCTTTGAAG
WI-19139a	66	C T ---	---	CCCGTCTAAGGGAGAAAGCTAATGTTTTCCACAAGACTGAACAACGTGTATTTACACGAGGGTAGA C/TJGGCAGATGCCCTGACAGAGAGTGGTTGGCAGACACACACTAGCATTTTACGGGTGTGGGCAC ATGGGTGTGGCACCTGGACGTGTGCAGCATGTGGCGTCTCTGTGTGAAGCCACCGTGTCTCTTTGG GGGCCGCGAGATCTAGCATCTCTGAATCCTGGCTGTCGAGGCTTTGAAG
WI-18910	112	T C ---	---	GGCTGGGACCTTTAGGAAAGTGAATGCAGGTGAGAAGAACCTAAACATGAAGGAAGGGTGCCT CATCCAGCAACCTGTCTTGTGGTGATGATCACTGTGCTGT[G/T]CJGGCTCATGGCAGAGCATT CAGTGCCACGGTTTAGG
WI-19235	173	A G ---	---	TTCAGGAGGTGGAGTTCGTGCTCAGCTCTCCTGCTGTGATGTGGAAGCTTCTGATATTTGAAGAAACA CGAATGCTCTGTAGCTTCTCTTCACTGCCCCAGTATGCTGTATTTATCAGCGATGCCCTCTGT CACTCATGCCCTTGCCTAATTGTTCACAATGGTGA[A/G]GCTTCATGTAAATGATCAGGACCCACC TCCAGTTCTTCTGAAAGTGTACAGTGTCCAGCCGGTTCTGCAGCACTA
WI-19222	179	C T ---	---	CGTTTCCCTAACTCACCCAGTTTAGTTTGGGATGATTTGATTTCTGTGTGATCCCATTTCTAA CTTGGAATTGTGAGCCTCTATGTTTCTGTAGGTGAGTGTGTGGGTTTTTCCCCACCAGGAAGT GGCAGCATCCCTCCTTCTCCCTAAAGGGACTCTGCGGAAC[C/T]TTTTCACACCTCTTTCTCAGGGAC GGGCAGGTGTGTGTGGTACACTGACGTGTCCAGAAGCAGCACTTT
WI-19117	134	A G ---	---	AAATAATGCAACGCGAGGAGAGAAAGAAATGCACTAAGACAAGAACATTTCTCTCATAGAACATTG ATCTGTTTTACAGGAACAAACCTTGCCCTTGAAATTTACACAGTGAGACTGTACATAATTGCATGAA A/GJTAGCTATTTTTTTCCTAAGACATTTTTCATTCATGAATATTTCAAGTTTTTCATACTGTACA CATTTCTAAACACATGATACCAGCAGCAACTGAAATGAATGCCGAATTG

WI-19134c	263 C T ---			CTCCTGTTCTGACAGGGTGACACAGCCCTTTTCACACTCTGCTCCTCTATCTTCTCCTGGGTAGA TGCCCTGGGTAGGGCTGAGTACTGAATGGTCTTCCATCCCAAGAGGGGTGAGCCAGGGTCTCAG GCCCTTCAGAGCCAGGGCTAGAGGATGCACGGTGGCTAGAGCCAGCTGCACACTATCCTTTTCAGAGCAC TTCAATCCACTTGTCTCCTCCTACCTCGGCACCCCTGGGTGGGAAAGGG
WI-19134a	162 T C ---			CTCCTGTTCTGACAGGGTGACACAGCCCTTTTCACACTCTGCTCCTCTATCTTCTCCTGGGTAGA TGCCCTGGGTAGGGCTGAGTACTGAATGGTCTTCCATCCCAAGAGGGGTGAGCCAGGGTCTCAG GCCCTTCAGAGCCAGGGCTAGAGGATGCACGGTGGCTAGAGCCAGCTGCACACTATCCTTTTCAGAG CACTTCATCCACTTGTCTCCTCCTACCTCGGCACCCCTGGGTGGGAA
WI-19224	112 C T ---			GGTTTCACCAAGTCTTCCCAAGGAACTCCGATGAAGTGTCCCAACAAATGAGCGAGTGAACCAAGA AGAGGATGACATTAAGATCCAGGAGATACACAGAGGAGATAATCTC/TTCAGGATGCCCTGTGAAGA AAGATCCCTGGATCCAGGATGATTATAGGACAAGTTGTTATAATCCAGCAGGCCAGAAAGACTTCC AGGAAACTCATTCAAGGAGGTGAAATGATGATGACTCCTCCAAGATGAAAA
WI-19201	179 T C ---			GCAGCTCCTAAGGACCACCTGGCCATTAGCTCTTGTGATGGCATTCTCTTCCACCTTGTCTTCTC CTTTGCTCCTCTGTGTTAGTGGCAGGTATGACAACTCATCCAGTGGAAACACAGCCCTCACACTGCC CTTCCGCCCCACACTTTGCCCTGCAGGTGCACCGAAAGGACTT/CJTGGGGGATAAAATTCAAAAA GTGTGATGTGCTGCTCAGAAAGTCAAGCTCCTCATGTCTGCTTGGCCTCAA
WI-19034	45 T C ---			GAAATGGCTCCACTCAGAGCTACCCCGGTGATGAGGATAGGGAA/T/CJACTTCTATTACATTAAG GCAACAGCAGTTAGTAAAGGTTTTACAGTGTCTGCTGTTTGAAGTGCAATATAAATTTTTTG CTAGCCCATGATCAATCGACTTCTATTGTTGATATACACTTCAGCATTTAAGTTCTGTCGAATTGAC ATTTGCTACTTATAAACCTAGTCCCTAAGTCTTCTTATGCTGTGCTATA
WI-19102	25 C G ---			TGTTCTGAGTCACGCTGAGGAGAG/C/GJCTTCACTCAGGAGTTCATGCTGAGATGATGATGATTC TGCGACGTATATTTCTTTGGAAACAGAATGAAGCAGAGGAAACTCTTAATACTTAAATCGTTCT TGATTAGTATCGTGAGTTTGAAGAGTCTAGAACTCCTGTAAAGTTTGAACCTCAAGGGAGAAAGTAT AGTGAATGAGTGTGAGCATCGGGCTTTCAGTCCCATAGAACAGAAATGGG
WI-18548b	65 A G ---			AAAGGAGGGAGAATCTTTTACATAAATGCCTTGCATCATCCTCCAGTCCCTCACTGGGGAA/A G/JAAAAGCATCTNTCAAGTCTTTGTCCAACTTTGGCTGC
WI-18548a	62 G A ---			AAAGGAGGGAGAATCTTTTACATAAATGCCTTGCATCATCCTCCAGTCCCTCACTGGGG[G/A]A AAAAAAGCATCTNTCAAGTCTTTGTCCAACTTTGGCTGC
WI-18700	97 T C ---			GGCAGCAGCTTTTTTAATTTGAACACTTTCTTCTTGAGGACACACCTTCAGTACAGTTAACAAATGGT TACACCTGAAATCTGCTGAGAGCAGAGCTT/CJAGATCCACAATTGCAAAGGCCACTGCTGGCTCA CTTCCCTCACA
WI-18501	121 C T ---			CAGAGGGAAAAGTTTATTGAGTCAGCCACAGAGGAACAGAGAAACAGACACAAAGGAGGTTCTGTGT GCATGGAGGAATCAGGGCGCGGNACAGCTGAACCTGGCAGGACAGAGGGGGC[C/T]GGACAGCA GCGCATGCCACAACATTCA

WI-18017	87 C A ---	---	ACAAAGAAAATGGAATAGGTTGCGAAACTTATCTGCGATGTACAAAGTAATCCCCGTAGATAA GGAGAGCAACCCNGGAACA[C/A]ACTGCTGGATAAATCGTTCAATAAAATTATATCTCTTGCAT CAGAGCTGGTGGAATCAT
WI-18148b	101 A G ---	---	TTATTGCGTTCTTCGATAACCTCTCTTTGGGACTATGAGATCATCAACAGATGTGAAAACGAAAGCA GTGATTTAGAAACGTCGATTCTGAATATCCC[A/G]TGGCGCATATGCAAGGAAAGATGA
WI-18254	64 T C ---	---	TATACGGATCATGTATTGTGTGACCACCACCTACCACAGTCAATTTGTAGAGCAGTTAAATCAC[T/C]]GCCAAAATCCCCTCTGCTTCTGTTAGTCAAGTCTCTCCCAACCCAGGACTTGGCAACCTGTTT TCCGTTCTAGACATTT
WI-18265b	117 C A ---	---	CAATGGGTGGACTGAGTGATAAAACGCATATTGAGAAACAAGACGGCCTTCTGGCCNCTCTGCGTCC AAGCTGTAAAGGTCAGGATTGCTGCTAAGTGAGCCATGAACGGCTG[C/A]GTTTTCAACCTTTTC CTTGGGTGTTCTTCAG
WI-18295	40 C T ---	---	ACCACACATTTGTTGAGAGCCTATTGTGGAGAACAAACAG[C/T]TTGGGAAGTAAGGTTGATTACT TCCTCTCCAAGGATGATGTTTAATGAATCCCCTTNCCTTAGCTTCATCTTCATAATGCCAAA
WI-18459b	64 T C ---	---	GGGCAAGAGACAGAGATTTAATTGAATAAAACTCCAGGCTGTGACACGGTGGGAGACACAAAT/ C/GAGTAATTAAACAACATAATTTTANATGACAGTGCAATTAATTAACGTCCTGGTAAGCCAGAG GGGAGGAGGGGCTTTCA
WI-22585	56 A G ---	---	TTTATTTAAATTTGCATCCTGAGATAATAAAATTTTATCTGACAAGTGAACAATG[A/G]CAGAAGC AGCAGTGAAGTTTCGGAGAGGAGGATCCTTCATTTTGGCACAGCTGTATATAGATTGA
WI-21155	36 A G ---	---	GGGCTGTGAGTAACAGAACTTGATGGAAAATTGGC[A/G]TCTGTGTAGAAATGATCTAAAGCTTTC AGACAAATGGCAGA
STS-F02766b	88 G A ---	---	GCCTTTGCTCTTTGCTGCTCAGAGGCCTCAGATGGATCGCAGCAACTTCCTTTTGAACCTTTTAT TTTCCTGGCAGGAAGAAG[A/G]GGATCCAGCAGTGAGATCAGGAGGTTCTGTGTGCACAGACAG GGAAACAGGC
WI-19888a	98 C T ---	---	GGCAGGATCAACCCATAACAGAGAAATAACTCCTTATTGGAAACAAGGTTTATTTTGATATGATG AAAATATTTGGAACTAGAAAGTAGCAGTG[A/C]TGGACAACGTTGTAAGATATTAATGCCACT GAACTGTTCAATTAATGGTAATTTTCATGTTATGTGTATTTACCTCAATTAAGAATGGAACATGT CTTATAATTGTAAATTACATGAGANCATATTTATGTTGGAAGTGAACACAAG
WI-21485	82 C T ---	---	TGAGACCATCCTCCTCAACAAAGAATCAGTCAGTTGAGCACCTAATTTTCCACACTGAAGTCTACG CAATTTTCATGCAG[A/C]TGTGCACACAGTACAGTGCACAAATCCAGAGGGCAACACATTGTAATT CATATCATCCGTTTCCAAA
WI-20601a	125 T C ---	---	TCAGAAATTGCTTCCACTGCCCCAAACCAAGAAATTTAATGAATGNCNTTACAATTGAGATGACTT GAAGTTAAAGAAAGGTACCTTCCCTGGAGGTGCATGACAGGATTAGTCTCTGT[T/C]CTTGGT GCAAGTTTGAACCAGTGATTATGTACCATTCATCAGAGCATCTGTTTCCCTGTGAGATCCCCACTAG

WI-20561b	94 T C ---	---	CGTTGCTATTTAAGATGGCTGTTTATAAGTATAAAGCAGTTTGAGCAACACTGATTGTCATTATTG TACTTCAGATGAAAAATCCTTACATGTCGGAATCAATGTCTTTTAAAATTCAGATAAAGAATTT NCATTTGAGGAGACATACAATTGTAA
WI-20561a	25 A G ---	---	CGTTGCTATTTAAGATGGCTGTTT[A/G]TAAGTATAAAGCAGTTTGAGCAACACTGATTGTCATTAT TTGTACTTCAGATGAAAAATCCTTACATGTGGAATCAATGTCTTTTAAAATTCAGATAAAGAATTT NCATTTGAGGAGACATACAATTGTAA
WI-20116e	69 T A ---	---	GCTTTCATTTTCTGTCACCCACCCCTGCCACGTTATGTTGCCCTTCAATATATGCGTTAGAACAT A/T[A]ATAAATCTATATCATATATTTATACACACAAACACATTTACCAGCACTGTGAAGACACAGA CTAGGCTTTACTAGGCTTGGGGCCTCTCCCATGCCACTTAAAAATGNGCACAGGTTTGCTCTATGCAA GAATTTCAACAGAGTTGGTCTGGCCATCAGTCTGCAATTTCCCCGAGATAA
WI-20116c	59 T A ---	---	GCTTTCATTTTCTGTCACCCACCCCTGCCACGTTATGTTGCCCTTCAATATATGCGGT[A]TAGAA CATATATAAATCTATATCATATATTTATACACACAAACACATTTACCAGCACTGTGAAGACACAGA CTAGGCTTTACTAGGCTTGGGGCCTCTCCCATGCCACTTAAAAATGNGCACAGGTTTGCTCTATGCAA GAATTTCAACAGAGTTGGTCTGGCCATCAGTCTGCAATTTCCCCGAGATAA
WI-20116a	22 C G ---	---	GCTTTCATTTTCTGTCACCCAC[C/G]CTGTCCACCAGTTATGTTGGCCTTCAATATATGCGTTAGAA CATATATAAATCTATATCATATATTTATACACACAAACACATTTACCAGCACTGTGAAGACACAGA CTAGGCTTTACTAGGCTTGGGGCCTCTCCCATGCCACTTAAAAATGNGCACAGGTTTGCTCTATGCAA GAATTTCAACAGAGTTGGTCTGGCCATCAGTCTGCAATTTCCCCGAGATAA
WI-20466b	133 G A ---	---	AAAGATTTGCAGTCTGGGACACAGTTTGGAAACACTATTTATAAGGTTGCACATATTACAAACAG NTCCAAATGGTGAAACIGGTATTTCTAAGATGAAAGCTTAATGAACATAATGAAGTGAATAAACGC[G/A]GTGAACATAATGTTTAAAAGTTAGAGCTTGTCTCAAGTCAGTACAGCTCTTAAGATAATAAAT ACAGTAACACTACTTTTATTTCTTTTGTCTCTTTATCCCTTTTCAGGTTGATT
WI-21444	39 A G ---	---	CTGGCAGCAAGTAACCATTTTAAAGAAATACTCTCAAC[A/G]AGTTCTTTTATGTTGGGTATTTCA GTTGTTAACAAAGTTAAATACTTATTGGAACATAATCTTTGTATTTTTCGAGGAAGAAGATCT ATAAGATTGACTTACTCATTTGTGACTGGTTTTTTGAAGCCTTACTGGGG
WI-21034b	148 T C ---	---	AGAATGGACAATGATGCAGATGATTTGTGAGCATTTTGATGAGAAAGTGGTGAATAGAAGGATACAG CATAAATTTAATTGTAAACAIGCTTAICTAGCTAACCTAATCTGTTTCTGTAGAATTAAGTGTCTGG GAGATTGGATAGAT[C/G]CCTAACCTATCTCAATTTTAAAGTAATGTGAGCAA
WI-22091c	205 G A ---	---	GGCGTGTATTTGATGCAATGTCCCAACCAGTCAAGCTATCATTTGAAATCCAAATATTTCCAGTAGAG ACATGCAGAGCAATGTCAATGTAAACATACAGCATATTAACCTCCCCCTTAAGTGACTCATAATTC ATTACTTGTGCTGTAGCTTTTAAAGGTTTAAAAATGTGTAGCATTAAGTGGTATTACTTGAGGGCA ACA[G/A]AATTACGGCTTAACAACACACTAAATCATGAGGCTCAGGGATTG

805a	45 A T ---			CAACTGCTCTGAGGCTCTTCACTAGCTGATTATAATCCCTATATTATJAAAAAAAAATCTATAGTCTG CAGTCTTTTGACATACTTCTCAAGGTGGATATGTGGTGAATGCAGATCCATCAATATATGIGGTT TTGTTTGCTTTTGTAGCTTAAGTCTGTTTAGNAATCCAGAGGAATATGATTGAGGCCAGAGTTA CATTGGTTCATAAAATTCGAACAGTTGAAGGCTGTTTTGTTAATTGCTG
778b	155 T C ---			AAAAATCCATAATTATTGAACCCCAAGTTACAGAGAAAGTTCGTAACTTTTTTATTGAATTATTGAC TCTGCCCGGTGTCGTGCTGCTTCAACTCCAGTCTGTAATGCCCTGTGTAGGTGGGTCCTCCAG GTCTGGGCTTCTGAGGTCTCJGGTAGAAGGAGGGCAGGTGGT
1-20907	241 A C ---			TGAGTCAGTGGTCAGATGGGGCAGTTGGCTCAGCTGCAGTCCCTGACTCCGGAAACACTGTCCTCT CAAATGATCTAGAGCTCATCTTGGCGGTACATGAGGGCAGTTGTTGTTCTAGTACCCATTTAGCCC ATGGCTCTTCAAGCCCAATTCACTGCGGAAACACACCCCTCACAAGATGCCCTATCCATTTGAGTTC ATACAGGTTTTAGTAGCTAGAACTAAAAAACATTTTTA/CJJAATTATCTA
449b	222 C T ---			AACAGCAGCAGTCACCTCCAAATGCAAAAAAATTACAATTTTTAGAATAAAATATAATGTTTA TAATCGGGTCAAGAAANTTGAAGGTACAACAGAATCAATCAAGCAGCACTGGAGGGCTGGAG AAGCCAAAGCCCACTGGTCAAGGGTCCAAAGCTGACAAGAAAGTCCCAACCTGAGAGGTCTCCACACCC AAATCATACCCCTCAGCTTCCCA/CJTJGACAGAGCCAGTCTCTCTGGGTTAG
558a	157 G A ---			GCTTACAAGGAAGCCTGTGGACAGCGAGNTGGTGGAAACCGACTCCAGCCTGGAAAACTGCCCCTC CCATCCCTTAGCGCCTTCTGGCCTCCGGCTGATTTCTCGACAGCAGTTCTGGCCAGGGCAAGG AGCTGTGGTGGGGGCGAGTATG/AJAGCCAGGGACTCCCTTCCACACAGATGAGGCCTAGGGCTGCAA AAGGGCCCGTGAAAGAGAGATGTGGTCAAGGCTTTATGGGCTCTCCACC
187b	178 G A ---			TTTGCTGTGGAATCCATGAGAGCCGGAAGCATCGTTGGGGCCGTGGCTAGCAGAGCTCATGNGACCA GTCTGGGCTGACCAATGGGTGATTACATTTAAAAACCAACCAACCAACCAACCAACCAACCAAGA ACAGATCACTTGCCATGGACATCAGTAATCTATTGGTAATGGTG/AJAAATTTTCATGAAAAATTC CCTAAACCATAACAAAAACTGTCTCTACCCCAAAAGTGTGGAGGAAAAG
187a	110 C A ---			TTTGCTGTGGAATCCATGAGAGCCGGAAGCATCGTTGGGGCCGTGGCTAGCAGAGCTCATGNGACCA GTCTGGGCTGACCAATGGGTGATTACATTTAAAAACCAAA/CJ/CAAAACAAACAAATACCA AGAACAGATCACTTGCCATGGACATCAGTAATCTATTGGTAATGGTGAAATTTTCATGAAAAATTC CCTAAACCATAACAAAAACTGTCTCTACCCCAAAAGTGTGGAGGAAAAG
1609b	146 G A ---			TCATGAATATGCAGCCTCCATAATCTCTCCCTTGTAAACAACTGCAGTCCGTTCAAGCTGTAAA AACAAGCCCAAAACCAAGACATCACAAGAGGCAAGAGCAGTGGCAGTGAGAAGGGAGCCTGTAAAG GATGTTCAAAG/AJAGGGTCCCGGCTATGTGCCACTGGATGTAGGCAGTGAGCTGAGTCCAGGC TTTCGGTCTGGGAAGTGGCAGAGGCTGAGACANTGGCCAAAGAGGAGTTGGAG

WI- 21609a	42 C T ---	---	TCATGAATATGCAGCCTCCATAATCTTCTCCCTTGTAAACAAAC[CT]GTGCAGTCCGTTACAAAGCTGT AAAAACAAGCCCAACCCAGACATCACAAAGAGGCAAGAGCAGTGGCAGTGAGAAGGGAGCCTGTGA AAGGATGTTTCAAAGGAGGTCCCGGCTATGTGGCACTGATGTAGGCAGTGAGCTGAGTCCAGGC TTTCGGTCTGGGAAGTGGCAGAGGCTGAGACANTGGCCAAAGAGGAGTTGGAG
WI- 22512a	104 T G ---	---	ACATTCGAGCCAGTTTTTCCATATTGCTCCACTGCCTAAATCCCTTGGTGCCTCCCTAGGGCTTCA GGGTAAGCCCTGACATCATGGTCTTTTGTGATCTGT[G]ACCTCACCCATGTCTCCACCTNAGTTCC CACATTTCCCCACGCTCTAAGGCGAGGCGTACACTTGACTGCA
WI- 21028b	139 A G ---	---	ATCGGCAAGCTACAGCCTTAAATCTGAGCTCCTCAAGTGCACAATTTCTGTCCCTTTAAGGGCTCA CAACACTAAAGATTTACATGAAGGGTCGTGATTGATTGAGCAATCTAGGGG[AC]TATGTGACAG TTTC[AG]TGCACTGGTACAGAACAACAAGGGAGTTTCACAATTTTTTTTATACAAATGCTTGGGAAT CTACGG
WI- 21028a	121 A C ---	---	ATCGGCAAGCTACAGCCTTAAATCTGAGCTCCTCAAGTGCACAATTTCTGTCCCTTTAAGGGCTCA CAACACTAAAGATTTACATGAAGGGTCGTGATTGATTGAGCAATCTAGGGG[AC]TATGTGACAG GGGTTTCATGCACTGGTACAGAACAACAAGGGAGTTTCACAATTTTTTTTATACAAATGCTTGGGAATC TACGG
WI- 18829d	58 A G ---	---	ACAACATGCCTGTTACAGGGGGGAAAAATCCTAGGNAATAACTTATGTGTACTTCTTG[AG]TTTCA TCATACAAGACAAAGCACAAAAGCACACCCCATGCCTCTGAGGAACATTGGACCATGCACCCCTTGAAA AA
WI- 18829b	35 T A ---	---	ACAACATGCCTGTTACAGGGGGGAAAAATCCTAGGTT[A]AATAACTTATGTGTACTTCTTGATTTC TCATACAAGACAAAGCACAAAAGCACACCCCATGCCTCTGAGGAACATTGGACCATGCACCCCTTGAAA AA
WI-20964	87 G A ---	---	AGCCAACTCAAGGCCAAAAAATTTCTTAATATAGTTATTATGCGAGGGGAGGGGAAGCAAGGA GCACAGGTAGTCCACAGAATA[G/A]GACACAAGAAACCTCAAGCTGTGAGGTCAATTTGTAATTA AAGAATACTAAGATTAGATGAACACAACACTCAGAAAATCTCTAGGAGAGCTGAAAAAAGGAAGC AGATGTTAACAAAAACAAATTAAGGCTGCTGGGGAACCTGAGTCCATGTTAAGCTTG
WI- 20059a	59 T A ---	---	CTCTGAACATAAGGGCCGTGAAGGCATGATTGGTTTTGGCACACAGAGTGGATAACCA[IT/A]JACAT TGGCTGGAATGAGGTGGTCAGGAAAAATAAANTGCACAAATCTAACACCATGTTGAAATCATGTCTGA GTCTGGAGAAAGTTAAAGTGTAATAATTACAAAGACTGACATGCAACTCTTTACCTTACATTATT CATCTACAGACTATTTTCTCCCTTAGGAGATGAGGAGTATGGCCCTTAGGT
WI- 22130b	165 C T ---	---	TGTTTTGAGGGCTGTAGCAGACTACATAATAGCGGTGAAGCGGCTGCCCTTCCCTCTCCTGACAC CAGCAAGGGGGAGGCCACCATCACCGGCCCTGCCCATCATGCATCCCAATGATTACTAGCACTAGGAA GCCAACGGGAANAGGACCCCGCGCTTGTCT[CT]GTGTTTAAATCCAGGTTAAGCTATACACGTTTAA ATACATGTCGGAGGTTACATGGTCTCATGCAGTCCCTCTGTGATGGGAATGAC

-261-

WI-21661	117 G C ---	---	---	GCTTAGTCTCCACCCCTTTAAATGTAAGTCTAGGTACAAAATAAACATTATACACATATAAGATCAGTCTTTCCAACTTTAGAAATGTATAAATAAGAAATGACATTTTAAATAAAATAG/CJTTTAGTCACAGTCAACAAAACACTACCTTCTAAGGAAAACGTGCCAGTGAAGCCGTTAAATTTGTGCTTTCAGCTATGAAGGA
WI-21980a	25 T C ---	---	---	TCAGTTTAAACACATTCATCAAGGAT/CJAGATTAATTAATGTCAGGTGAGCATAAAAGGGAGATTAATAACCAGAAATGTGTTTTCTGGGAACCAAGTTTCAAGTGACTCAGGATAAGTTTTTAATTAATTCATGGTGAAGCCCTGGGATAAAG
WI-21636	71 A G ---	---	---	TGCTTGATTAATGTGGTGTTTACATTATCCTATTTACAGATGGAAAACAGAAAATACCAGCTTTTTTAAI/A/GJTAGCAATATCTATTATATAATAAATATTGAAAATAACACCATAATAATATCACTAAGGAAGTAATCTAATTGTGTTGATTTTCAGAGGGGAGAAAACATTACCTCTAGAGCTGAGGCTATTGIGCTCATGCAAACTCCAATCTGAAGGTGGTAGAAAACCTAGGAAGGGACAGGGATTTC
WI-22457a	112 G A ---	---	---	TTGCTATAATTTCCTTAAAAATGCAAAAGAGTACATCACAGCAGAGTATAGCCAATCACTCATTAGA CAAACAGTAAACATACCTGGACACGGTTTCAGGCATGAAGGATACA/GI/CAGTTAATTAACATAAAGGAACAGAGTCCCTGCATTCCTGAAGCATAGGATGGGAAACAGTAATGCAGATTAACTCTGGGGCCAAAACCCACTGAACCTACCCAGCTGAAACACTGAAGGATACTGGGTAAGGA
WI-21524b	97 C T ---	---	---	GCCGTGAGGGTTAGCGTATAATGAAAAGGTGTAATAGCCTGATGACGACCTTCGCGTCATACCTTAT AATGGTTAATAACAGCATTCCTGTCTACCC/C/TJGATGATGCTTCTCTGCAATGGACTATTTGCC CAGTTGCAACAGGGCTAAGATTGTCGCACTATGACAATGAGTTGTTGATTGTTGGAGTTGCGGTGTC CTGICAGAAAGATTCTTGACTTTCTCCAAAGTTACTTCCTCCAGGGGATG
WI-21524a	35 A C ---	---	---	GCCGTGAGGGTTAGCGTATAATGAAAAGGTGTAAT/A/CJGCTGATGTACGACCTTCGCGTCATACT TATAATGGTTAATAACAGCATTCCTGTCTACCCGATGATGCTTCTCTGCAATGGACTATTTGCC CAGTTGCAACAGGGCTAAGATTGTCGCACTATGACAATGAGTTGTTGATTGTTGGAGTTGCGGTGTC CTGTCAGAAAGATTCTTGACTTTCTCCAAAGTTACTTCCTCCAGGGGATG
WI-22652a	32 G T ---	---	---	TTACCTTCCAAACCCAGGCCACTTTGGAGAAAAGI/GTJAAGAGAATGCTATTATCAATAAGCCAAAGAC AATAGGGACTACCTGGGGTAGACCAAGATGGCAGTCACCATACACCATCATTCCTGCCACAGAACC TTTGCACATGCTGCCCTCCCTACTCCGCACCTCACCTGTCTAATTTGGGACCTGAAGCTTCAGCATCCCTT CTTTAGGG
WI-21703d	197 A G ---	---	---	CAACAGGCTCATGGAACAGAGCCTAGGGATCCAGGAGCATAGGAGTGGTGGTGGCAGGGGCTC TGCAATCCCTTTCTCAGCACAGCACCATCTTCACCCCTCCTGGGAAAGCAGCATTTGGAGCCCTACACCA CTTGTGCTTTCTCACCAGGGTAAGAAATGCAGGTATTTGCAGAGGGGAGTGAGTCTGGGA/A/GI/G TGGGCAGAGCACAGCTAGGGGCAAGGACTTAAGGGAACCTTGTTGGGGGAAGAG

WI- 21703c	134 A G ---	---	CAACAGGCTCATGGAACAGAGCCTAGGGATCCAGGAGCATAGGAGGTGGTGGTGGCGAGGGCTC TGCATCCCTTTCTCAGCAGCAGCACCACATCTTCAACCCTCCTGGAAAGCAGCATTTGGAGCCCTACACQ A/GJCTTGTGCTTTCTCACCAGGTAAGAAATGCAGGTATTTGCAGAGGGAGTGAGICTGGGAAAG TGGCAGAGCAGACTAGGGGCAAGGACTTAAGGAACTTGTGGGGGAAGAG
WI- 22663c	139 G A ---	---	CCCTTGTAGTCTGTGCTCGGCTTCTCACTGCACTGGCGAGGTGAGCCGGCTCGCTAATCTTATTC CCAGTCTCGGTGAACATGGGCTCAGTCTCCTCCGGCTCAGTGTGGGTTGCACCTGGTGCACCTTACAG GC/GA/GAAGAGCTTCTCATTTGCTGAGGGCTTTTCTGAATCCGTGTGAATGTGGGT
WI- 22663b	55 C T ---	---	CCCTTGTAGTCTGTGCTCGGCTTCTCACTGCACTGGCGAGGTGAGCCGGCTCGCTAATCTTATTC TTCCAGTCTCGGTGAACATGGGCTCAGTCTCCTCCGGCTCAGTGTGGGTTGCACCTGGTGCACCTTAC AGCGGGAAGAGCTTCTCATTTGCTGAGGGCTTTTCTGAATCCGTGTGAATGTGGGT
WI- 22663a	38 C T ---	---	CCCTTGTAGTCTGTGCTCGGCTTCTCACTGCACTGGCTGAGCCGGCTCGCTAATCTTATTC TTCCAGTCTCGGTGAACATGGGCTCAGTCTCCTCCGGCTCAGTGTGGGTTGCACCTGGTGCACCTTAC AGCGGGAAGAGCTTCTCATTTGCTGAGGGCTTTTCTGAATCCGTGTGAATGTGGGT
WI-22668	99 A G ---	---	TCTTTTATCCTGCTGCCTGAGTATCTGGGAATCCTACAAGGATTTGAGGGAGCCCTTGGGATT CCAACCTAACAAATTAGTTTCTGTAATATTA/GJTTCTAGTCCATTTAGATTGTGTAATGATCTAA ATGNGTAAACCATTTAATACAAAGTATAACAGCATTTAAGTCAGCTTTTCGAAGAAACTTTTATT
WI- 22631a	52 T C ---	---	AAGATATAGTGCAGGACAAGATTGGTCAAGAAATCCTGGCTCAGTCTGAT/CJAGCACCATTTT CAAGTTTAGGCAAGGTATTTAACCTCTCAGGCTCATTTCTCTTTGTAAATTTGTGATAATGGACC TATGTACCATCATAGGCTACTTGGACAATCAACTGAAATTTT
WI-20258	157 G T ---	---	AATCCACATTTACGGAGGGGACACAGCCTGCCATGTGTCCTCCAGGCTCACAGCAGCGCGGCTAC TCTGCTGGTGGTTTGGTGGCAGGTGGAGATGGTGACGGCGCATTTGGAACCGTAAGGCATGACAACG GGAGCCCGCGGGGTGTTTCA/G/JCGCGTTGACGCAGGTGCGTGGCGGCGGCTCTACAGA AGGAGGGAGCGCAATTCACAGCCTCTTGACGTAGTTTCCGGGGAAGTACC
WI-22714	212 C A ---	---	ACTACACATATGCTGATTTTCAACAGTAAAAATAACATTTTACATTTGTAGAGAAAATCTAGGGTCT ACTAAATAATCTAGTACTGTTTCCACTCTCCTGTAACCTGACAGGAGTGTGTGGGAAACGAAAGT CTGAAAGGATTCAAGGGGGCTAGGATTTGCCACAGATCCTGTAAAGGAAAGGATGAGGTGAGCTT ACCAACCCCA/C/JTGAGTAGGGGCCAAACATCCTTAACAAGCTAGTTGCT
WI- 22734a	44 G A ---	---	TGGGGCTACTTTAGATGGGATGGCTCAGGGTCTGGGAAGGCCTG/JA/TCTTAGAGACATTACCCA AATGATGAGAGGCGAGCCAGTCGTCGAAGCCATAGTTTGGATGGCGAGACTTTCCGGCAGAGGAAAT AGCAAGTGCAAAGGCGCTGAGGGAGAAATGAACTTGGGCTTGCTCTACAGGGTGAAGGGCGCGGT NTGGCTGAGGTTAGTGGATG

WI-22724	117 A G ---	---	TGATATGATGCTGAGATTTGCTTCCAAATATGCCATAGGAAGGGAAGAGTGTATTAGAGATATAGGA CAAATCAAGATTGTCAAAATGTATAGTAACTGTTAAAGCTTGCTAAGGGT[A/G]GTTATTCTATTTT TGGGATATGTTGGGAATT
WI-22750	48 G A ---	---	TGTAACCTGTGTTTTCTGAAAGTTGAGGGAAGCTGAGGCAGCTAATG[A/G]GGCTCATACAAAGGT TTGGAAGACCCATTCTGACTACCTAAAGGAGAGTCAGCATTTCTGACCAATCTGACTGTGCT
WI-22775a	60 A G ---	---	TGCTGTTTCTTTAGTTCATGACGTTTATCACAATGTGCTACTGTTCCATTGTTTACATC[A/G]TAGTA GGAAAGGGAATAAACTCCCTAAGGGCAGCAATAATTTCTGTCTTTGAATCCTTCATTCAGGCAAA TATTTGTTGAGCACCAAGGGCCAGATGGGAACGTAGGTATGTAGGTGTTGGGAGCCAGGAAAGGAAG GGT
WI-22808	143 C T ---	---	CTTAGCTAATGAACCTGGCTATGTGGACTATGATAGACCAAGAAAGCTACCCAAGTCCTGAGGGAG CCTAGTCCCTCCTAAATGCAGACAATGTACCCATGACAAGGGCTACAGCTTGGCTTTAGCAACCAGGA GGATGAAGA[C/T]AGCAAACTGATTAAAGAGAGTAGGTATAAGAACCCAGGGAGAGTGGGGTCCAAAT ATC
WI-21016	207 G A ---	---	TCCTCGTGTCTTGAGCCCTCATCCCCACCCCTCCAAGCCCTCATGCCACACACCGTGTCCACATT CCCCATCCTCCCTGTCTGCTCCCATCTCAAGTCCAATCCAAGGCCAGAGCCCTGGCAGCTTTCTG GGAGACAGCATGAAAAGGAGGGGAGTGGAGATGGCAGAGATGGGGTGGAGCCAGTGGCTGTGGGTC CTG[A/T]TGGCGTGGTATGTGGGGGCCAATCCTGAGGCCAGAGGTTCA
WI-21031	31 C T ---	---	TTGAACACCTGACCTGACCTCTGACATGTGG[C/T]CTCTGGTCCCATTTGTCTCCAACGGTGGCACA TCTTCATCTTTGTTATATACTGCAGGAACACTCAGTCTCTTCAGCAGCCGAGAAACACACACA
WI-21314	122 A T ---	---	CCATATCCAGTCTCTTTGAAGCTTTCTATTGACITTTAGGGTTCAGTTATTATATCCTTTTACTAT GACTTTCAITTTGATTTTTTATTGTTTCTTCCATTTCTGTCAAACCTTTTC[A/T]TTTGTATTAA ACTGTTTTCTAACTTCACTTAATCTCTAICTGIAITTNCTGTAGTCCCTGAACCTCTTTTAGAGG AGCGAGCATCAGAATCACCTAGAGGGTTGACTAAACAGACTTCTGGACCCCAACCCAGAGCTTCT GATTCAGTAGGCTGAGGTGGGCTTAC[G/A]AATTAGTATTCGAAGACCTTCTTAAGTGTGCAG ATGCTGCTTGTCCCGGGAACACACTTTGAGAACTATTGTTCTAAATGTTCTCTCTCTTTTAA GGAGAGACAGGAATCCAGAGAACTGCTAATTTAAGCATAATGTATTGAAT
WI-21186	95 G A ---	---	CCACGATAACTATAAAGCAGAAAAATTAGCTTTGAAAAATCAATAACATATTAGTAACACACATT CATTTTATAACACACATAAAGACACC[A/G]GGNTCTCAGTAATGCTCTAGTCCAGGGTCTCAA AGTATGGCTTCAGACAAGCCCATTTGCATCACCTAGGGGAATTGCTAAAATGCAGATTCTCAGGCC CTACCTACTGATCTACTGAATCAGAAACTCTGAGGGTGAGACCAAGCAACCTGT
WI-21187a	94 A G ---	---	

WI-21190	39 T C ---			TTTTCCCATACCAATGCACCTGTTTGTATAACTATT[C]GTGGGTAAGCCCTTCTTTGGAGAC CAGTGACATAGACATGATCCCATATATTATAACAAATAATTATTAAATCTGTACTATTACTGC TTTAGTTATCTAGTGTATTAGAGAAAGGAGAGTCAGCATAGTTTATTTCCATGTAATAAAAGCTT AACACA
WI-19937d	186 G A ---			ACCATGTGCATTTATTGGCATAGGAAATAGTGACCAAGAAATGCAGCANCTAAACTTTGGAAGGAAA GAACTATTGCACAACCAAAACATTGTACATATCTGATTAGACAAGCAAAAGCAGCTTCATGTTGTCT GTAAAGGTGTTCTATGGCAACAGTGATGACATTGGIGTTCCTCAGCAAGTC[G/A]TCCAAACCTTC CAAAAGAAAGCAGTCATTGAAAATGCTGACTTATGCAATTGCCTCAGGAAGAA
WI-19937c	185 C T ---			ACCATGTGCATTTATTGGCATAGGAAATAGTGACCAAGAAATGCAGCANCTAAACTTTGGAAGGAAA GAACTATTGCACAACCAAAACATTGTACATATCTGATTAGACAAGCAAAAGCAGCTTCATGTTGTCT GTAAAGGTGTTCTATGGCAACAGTGATGACATTGGIGTTCCTCAGCAAGTC[G/T]GTCCAAACCTTC CAAAAGAAAGCAGTCATTGAAAATGCTGACTTATGCAATTGCCTCAGGAAGAA
WI-21117b	227 C T ---			GAAACGGGGTGCTAAACAAAGAAAGTCTCAGATCCCAGTAAATCTGTTGAGTTTCACAGGCTC TCTCCAGAAAAATGCATATGTACCAATTTGCATGTACAAATTCAGAGCCTTCAAATACATTCTGGGG TCCAATCACATACCTCAGGTTTCAGACTCCTAGTCCCAATATCTCAGTTCTGAAGANTTAGCAGT CCTCTCATTTCTACAGTCTGATTTC/TJTTCTACTGAATCTTGGTGGGAG
WI-21122a	42 C T ---			TCACTTTGTATCATAATCCCCTGTAAAGCTAAAGTTATTCAC/TJTTAACAGGAACTCTGTTTTC TTATTCAAATGTACAAAGCCTGACGCTTACTGTACATATTGCTAGCAGGAGACAACTGGAATACT AAACAAATACTGGAATTCACATTACAGACAGACGAAACCAACATGGGATGCCACACATAACTTCCT TTGTAGGTTTTCACAGAGAGCCTATTGTGGGTTGCT
WI-21254	53 A G ---			CAGTTTGTGTACAGGAAGGGCCCATGAATGTGGCGGAACTATCCACAGGAG[G/G]CAAGGAGAAG CTGTTCTCTGG
WI-21054	23 G T ---			AAGGAAACTGCATGGGTACAAA[T/G/T]TCCAATTCATACTTAACAAGGTGGGAAACGGGTCAATTCT TGGCCTGCTCCAGAACAGGGCGAGTCTATGCACTCTG
WI-21059b	181 T C ---			GGGACCAGGGTAACACCATTAGCAATATCCGTTATCAGCCTTATCTTCCACTGAGCCTGGCTGAA CTACAGCTGCCAGCATTCCTGGCTTGCAATTCAGAGTTCGTACATCTTAATTTCAAGCTGAAA AATCCTGGGGAAGAGACATACTTCACTGAAGTCATTTCTCTATTCT/CJATTGTAGCCAGGGCAAAA TGAGATTAGGGATTAGCTCAGCCAGAGTTAGGGTGACTATCCTTGCCTAAT
WI-21059a	63 C T ---			GGGACCAGGGTAACACCATTAGCAATATCCGTTATCAGCCTTATCTTCCACTGAGCCTGG[C/T]T GAACTACAGCTGCCAGCATTCCTGGCTTGCAATTTCCAGCTTCGTACATCTTAATTTCAAGCTG AAAAATCCTGGGGAAGAGACATACTTCACTGAAGTCATTTCTCTATTCTATTGTAGCCAGGGCAAAA TGAGATTAGGGATTAGCTCAGCCAGAGTTAGGGTGACTATCCTTGCCTAAT

WI-20442	37	T C ---	---	TCCACGTGAAGGAAGAAAAAANGGGGGGGCTT/CJTAAAGTGGCACAATTTTAAAGAAAT ACCATCCATTTTCTCAGTCTAATCTGAATCCATACATTTAAACAAAAAGTCAAGTGATGAGACGAA CA
WI-21235	43	T C ---	---	GTGACAAGAGGTGAAGCAAGGGACAAGGGGCAGCAGGGCAGTCT/CJCTCGGGCCGATGTTCCAGGG CAAGCTACGTA
WI-22012a	57	T C ---	---	ATCAGAACTGCAATCTGCACATGAAAAGACCTGGGGGAATGCCTACATCTGGAATTT/CJCATTA ATCAACGTTAAATTTGTCGACCAGTCTTCATTGCTGATCACATTTTGATAATGACAGATCCAACAT GAACTCCTGAAGCAAATGAATATTTACCTTGCTTTTCATGCAAAATTTAGGGACCAAACTCAAAAGG TTTCATCCATGCTGGGACACCAGATCTAAGGAATTTGTACAGGGATCTCT
WI-21149a	167	G A ---	---	AGGACCTGCTCTCACACGTTCCCTCACCCACCAGCTTTGGCAAGATAGTTGACTAAATACCACCT AAATAGTGGCTTTTTTTTTTAAACAATGACCTTATTTATCTTTAACTTTAACTGAGTCTTATATA CAGACCTGCCAACTGAAAGCTTTTACAC[G/A]TGCTTCAGAATCGGCAGTATTGCACAAATGGTT TGGGCAGGTTCTGTGGTTAAACATGGGATGGAAACCCAGGCTCTACCTG
WI-21376b	188	A G ---	---	GGTGCAACTTGGAAATAATGGTTTAAACACAGGATAAGCATTAAAGGAAAAACACTTTCAATGTGTC TTCCATTTGATGAATTTGTTTTCTCTCTTTATCCCGCAAGTGGAGTTTCATGTCCTCGTGAAACCA GACAGTGTGAATCTGTTCCAGCCCAAATCTGCAGCATTAGGGATGAGTCTC[G/G]GAAAGTGATTCT GAACTGAGCACGCACTCATGTCGATGGGAACTCTGGGAGAAGAGCCT
WI-21382d	125	C G ---	---	CCATTGCAGTCCAGAGATGAGAAACTGGACCAGAGGCAATCATGAACAGAACGGAGTCAAGAGA AGGGGTTTCTAAGATGGAGAAGTGGGGGGGTTGGATCCAGTGGGATNGGTTCC[C/G]AGGTT GCAACCCCAAGGAAGTCTCTGGAAGCAGCACCACTGCTGATGGGGAGCAGAAGAGTGCCATCCTC AGTCAGGGTCCGAGTCAGGGTCCGAGGAGAGCTGCTGCTCCATAGTCTCGAC
WI-21437a	201	G A ---	---	TCCCTGAGGTTGGAGTCTAGCATAGTCCCTCCCTCAAGAGGGACAAGGGTCAGGGGCAGAGC AAAAATCCAGTCTGCTTCAACCACGGAGACTCCCTTGGGATGGAAGTTCTGGAGTCCCTCCATT CTATTCTGTGGGCAGGAACATGCCAGGGCTGCTGGTAAATGGCAGGGTGCACTTTACCAGGG[G A/C]AGGCATAGTGTGGCCCTGCTGCTGCTGGGGCCACCTGGGAACAGT
WI-21202b	156	A C ---	---	CAAAATAGAAATTCCTTTGTGAGTGGATTGACTTAATTTATTTCTGTATAAGCTAAATATGTTGATCT GTTTTATGAACATGATTTTATAAAAAATGGTCACAATATATTTTAAAGTTAACTGATTTATTGAGGG AGGAGGAGAGAGTTGACCAA[A/C]GTCTACATGCATAGACAGTCTTAAAGCGTATCTCAAAACATG A
WI-21202a	61	T C ---	---	CAAAATAGAAATTCCTTTGTGAGTGGATTGACTTAATTTATTTCTGTATAAGCTAAATATGTTGTA TCTGTTTTATGAACATGATTTTATAAAAAATGGTCACAATATATTTTAAAGTTAACTGATTTATTGA GGGAGGAGGAGAGATTGACCAAAGTCTACATGCATAGACAGTCTTAAAGCGTATCTCAAAACATG A

WI-21627b	153 A G ---	---	GCATGAAAGAACTCCAATCAGACTTTTATTCATAAAGCAGCTTTTCATGAATGCTTCAGGTCAGTG TATGATCAGCTCAGCTTCCAGTATCACTTGAACCTGATACCTCATTATGATATTTATGCTAGGAATGACAA CAGTAAGGGCATTGCAAA[A/G]TCCAAAGTCATCTAATAATTAAACCATATTTACATAAATTTGTAGG GACAGTATACTAATACTCTACAATAAATAAGGGTTTAAAAATGTGTTGCTTA
WI-21627a	106 A G ---	---	GCATGAAAGAACTCCAATCAGACTTTTATTCATAAAGCAGCTTTTCATGAATGCTTCAGGTCAGTG TATGATCAGCTCAGCTTCCAGTATCACTTGAACCTGATACCTC[A/G]TATGGATAATTTATGCTAGGAATGA CAACAGTAAGGGCATTGCAAAATCCAAAGTCATCTAATAATTAAACCATATTTACATAAATTTGTAGG GACAGTATACTAATACTCTACAATAAATAAGGGTTTAAAAATGTGTTGCTTA
WI-21399a	75 C T ---	---	GGATTGAGTCCCAACTTGATCTCAAAATTCACCTTTCATGTAAACAAGCTCATTCCTCTAAAGTT TCAGTTT[C/T]TCACCAGTAAAGGAAAGGTTGGACCAGACATGTTGGACCGTAATTGCTTGGTAA CTGCCTTCTGCATTTGCTCTGAGGTTGIGTCCCTAGGACTAGGTAGGATCTCTCTTGGCTTTCTGCC TTACCTAGGCATAGTGCCCTGATAGCAGGCTGAAGCCCAATTCATCTTGT
WI-20329a	68 G A ---	---	CGATGTCTGCTAAGATAGGAGGTTAATTCCTTACATGGTGAGTGGTCCACAGAGACAAGACATCAAT C[G/A]TCTGTTAGCAGCGAGAGAGACACTTTAAGTTGCCCAAGAGTACAAATCCCATCTATGAGAC AGCAGTCTGGCTTCTTAAACAGTAAACCAATCAAAAAGAAAGATTTAGAGGTTCAGACATT AGGAACAANTGTGGCCAGAGATACCACAGAGCCCTTGAAGGGAAGGCCCTCACT
WI-21249	155 T C ---	---	TTCTGGCATTCAAATGTACATGTAAATCCAATTTAACAGATCAAAATGTTACACTAAGTTTCACT TAGTATCTAAGTATCCAATCACAATTGTATCTAAGTTTCACTTTAAGAACATTATAAAGGTAATT AAACTCTAGGTGTACTTAT[C]ATGGAACTAGTTTATTTCCNATTTAACTACTGTTTCATTGCGTA AAGTATGTTGTCCCAATTTTCAGCTGTTTAAAGGAATTATAAAACATTGAGA
WI-21504	147 C T ---	---	TGACACAGCATCAATTTTCATGAATACCTTTGAAAGGGCCATTAGAAAAAATAAGAGCCAAATTTGGGTC ATTTGAGAAACATTTTCAGCACAATTACAGTGGGGGCGACGGCCGTTCCGGCTCCAGCTGGGTTTCCC AGATGCAACAAT[C/T]GCGGTTCTGGCTTCTCCACTGTGGGGATGGGATCGGCCCTTCGGAGCTCT CAGGG
WI-21242	115 G A ---	---	CTGCACAGGGAGGACAGCTGCTGGCAGGACTAATAAACCTTCCACCTGGCCATGGTGGTGTT CTCTATGGACCGAGGCCCTGAACGCGGCGCAGGGAGGGGACAGAAAC[G/A]CACTAGCTTGGGGGTG GGCACCAGCTTCAGACCCCTT
WI-21475c	181 A G ---	---	TAGCCCTTCTGCCAACATCTGGCAATNTGAGGCTGGGGTGGACGTTGGCCTGATGTTGCCAGGAGTAG GATGCTGATGCTGCCAGAGAGTAGTGGCTCCAAACCCAGGCTTCTCACTTGTCTACTAAGCACAG CAGTCTGAAGCTTGGGACCTGGGCAGTGGCTCTTTGGAGAAGGCA[G/A]AAAGCCACAGCAGCAAC ACTTAGGAGCAAGACCCCTTCCCGTCTCCACCCCTATTTCCCTCCCTGAAG

VI- 21475b	117 A T ---	---	TAGCCCTCTGCCAACATCTGGCAATNTGAGGCTGGGTGGACGTTGGCCTGATGTTGCCAGGAGTAG GATGCTGATGCTGCCAGAGAGTAGGTGGCTCCAAACCCAGGCTTCTC/A/TJCTTGCTTACTAAGCA CAGAGTCTGAAGCTTGGACCTGGCAGTGCGTCTTTGGAGAAGGCCAAAAGCCACAGCAGCAAC ACTTAGGAGCAAGACCCCTTCCCGTTCTCCACCCATTTCTCCTCCCTGAAG
NI- 20893d	207 A G ---	---	TGTTTGTTCCAGCCACATCTTCTCCAAAGGAACCCACCCAGCCGTTGTCAGGCTTGTGCAAGG CTGTCTTCGGCGTTTAAAGTGTACTGAGGAATACAATCATTTGTCACGTAAAGTTATCACCAGCACTCC AGCGTCAGGCCAAACCTTTCGGTGGACCTGGGNAACCTGCCATTTCTCTCTTTTACAATGCAGT TTC/A/G/ACATAACATTGGTAGAGTAACAACAACCAACCAAGCCTAAATG
NI- 20893c	179 T C ---	---	TGTTTGTTCCAGCCACATCTTCTCCAAAGGAACCCACCCAGCCGTTGTCAGGCTTGTGCAAGG CTGTCTTCGGCGTTTAAAGTGTACTGAGGAATACAATCATTTGTCACGTAAAGTTATCACCAGCACTCC AGCGTCAGGCCAAACCTTTCGGTGGACCTGGGNAACCTGCCA/T/CJTTCCTCTCTTTTACAATGC AGTTTCAACATAACATTGGTAGAGTAACAACAACCAACCAAGCCTAAATG
NI- 19941c	71 C G ---	---	GAGCTCAAGGGAAGACCCCTTACCAGATAGGGACTAACTGGAGGGTGGAAAGGAACAAGGTGAAA GGTATC/G/GGTCTGGTGAGACAAGCAGGGGGCTGAGAACACAGAGCAAGGTGGTTGGAG GGAGCACAGCAGGGTGCAGGAAGGAGATGGGGACATTTCCCTATCCAGTGCATGTCCCTTAAAT AACTGGGTACAGGAGCATNTGGAAAGGAGAACCAAGGACAGAAAGCAAAAGCG
WI- 21552b	166 C A ---	---	TGGGTACATGGACAGATGTATATGTTTATGGGTATATGAGATATTTGATACAGATACACAATGTG TAATAATTACTTCAGAGTAAATCGCATCTCTTCACCTCAAGCATTTATCCATAGTTTACAAAGAA TCCAAGTACTCTTGATTATTTAAATGT/C/AJAATTAATTTATTTGAATTTAGTTACCCC ATTGTGCTATCAAAATATTCATCTTATTCATCTTTGTAACTATTTATTGTA
WI- 21552a	66 G A ---	---	TGGGTACATGGACAGATGTATATGTTTATGGGTATATGAGATATTTGATACAGATACACAATGTG /AJTAATAATTACTTCAGAGTAAATCGCATCTCTTCACCTCAAGCATTTATCCATAGTTTACAAAG AATCCAAGTACTCTTGATTATTTAAATGTACAAATTAATTTATTTGAATTTAGTTACCCCA TTGTGCTATCAAAATATTCATCTTATTCATCTTTGTAACTATTTATTGTA
WI-21512	54 C G ---	---	TCCTCGTACTTCATGCTCCCTCCCTGCCCCAGAACCTTACAAAATATTTCTGT/C/GJTAGAGAGGA AAGAGCTGGTGCTGCTCTGGAGGCAACGTCCAGTCCGGGAAAGCAGCTCGTGGTCTGTGATCTGTC TCAGTGATGGGAGGTCTCCACTGCCCCACAGGCAGCCTCGGGGCCAGAGATGAGAAATATGCTGTAA TCCAGTACAGGGGCTGCGTGGGTGCCCCAACAGCTCTCTTTGGGGG
WI- 21513b	192 G A ---	---	CACATAGTTTCTCAAGAAGAGGATGAACCTGAAAACCTCTTAAAGGCAAGGACAAAGCAACTTCCATT ATTCTTAGTTTAGACCAGAACTTTAATTTTATTTATCTCTTTTAACTGTCAAAAATACACCAATA CTTAGAGGAAATATTCACAGTATACCAAAACATTTTAAAGATAAAGAGGCAGTGTA[G/A]JAGTAG TATTCCTACATACCACAGTATACAATGATGCCTTCTCCTGCAGGTTTAGGAAC

WI-21514b	133 C T ---	---	TTGAACCTCTGAAGGTGGCTTATGTCTCGACTCCTCTCTTAGGACTGGTCATGAGCTGACAAGCATAG AGGCAAAAGTATCTCAACATTACAAAAACCCCAATCTTCAAGGAAAGGAGCACATTACCATGGAGC[C /T]ACAGGACTCCAAAGGACCTCAGAAAGCATTTAGCCAAATCTCTTATGTCAGGAAATAAATGAGG ANTTTAAGGCTCAGATGGGGTTAAGGGTGATTGTGCAAGGGTCATAAGGAACT
WI-21514a	100 A G ---	---	TTGAACCTCTGAAGGTGGCTTATGTCTCGACTCCTCTCTTAGGACTGGTCATGAGCTGACAAGCATAG AGGCAAAAGTATCTCAACATTACAAAAACCCCA[AG]TCTTCAAGGAAAGGAGCACATTACCATGGA GCCACAGGACTCCAAAGGACCTCAGAAAGCATTTAGCCAAATCTCTTATGTCAGGAAATAAATGAGG ANTTTAAGGCTCAGATGGGGTTAAGGGTGATTGTGCAAGGGTCATAAGGAACT
WI-22020	27 C G ---	---	ATGAACACATGTTGCAGTGGGATGAAT[C/G]TTATCATGATGCTAAGTGAATAAGCCAGACACAAAA AATCCAAATGATCATCTACCTGATGAGGGTACTT
WI-19576a	113 A G ---	---	TTTCATCGGTTCTTAATACAGTACAATCCCTTTTGTGTAACAAGTCACACTGGCAATGATTATTTACA GATCCAAAATAGACTCAGGCTTCAGACATAAAAAATTTAACATT[C/A]GJTCTAGTTCAGTGATTAGT CACAGAANTTAACATCTGCCAGATGTACACAATTTGGTAAAAACTACAGCTTCTCTCCACGGGGA G
WI-21695a	141 A C ---	---	ATACACAGGCCACAATTGCAGGATGGAAGGAGCTGGGCACCTTGGAAAGTGACTACACATGGCAATA AGCAGCCTATCTCTTACCAACCAGAAAGTTCTTGGGCATGTGATGGTAGGCCAGACCCCTTTCCAA GGGAAT[A/C]TACTACACTAAGCCTACACTGTACTGTGAGAGTCATGGTGAACAAGGCCACAGGC AGTGGAGGAAATGTGATGACTTCACTGTGTTCCAGANTTCTAAGGCCAGCAT
WI-21574a	235 C T ---	---	AAACCCAGAATTTAGGTACTTTTGTATTATGAGGAACTCACTATATACTAGGAAGCAACTTATGAGTG TGTAATATTTGATCTAGCAGCAACTTTCACACTGATCCTGGCAGGTGACAGCTCTCAGTGAACAGCGC TCATCACCTAAAGTGAGAGGCTGTCTATTCTCATTTGTGAATGTCCTCAGAGTCACTAGGGAGCCATT GGCAGGCCAGGGAATTAAGTGCCTACTTCTCTTGTCTGTCTCAGGTGGGA
WI-21644c	151 T A ---	---	TGACTGCCAAGATTTAGGCCCAACTTAGGAGCAAGGGTCACCTTAACCTTTTCAGGAAGTCTTGGGT GTGACCCACTGCATAAATGGATTTTCACCATANTATTTAACAGACTCAAAGTGATACATAAAGCTTG TTTCATAAATAAGGGA[T/A]TTCAATCAAGATCCATGGAATGATGCAGTTTAACATGTGTCTCAGC TTGCCTACTGACCACCTTTCCTTTCTTAAATATGCAACAGCACAGCAAGTC
WI-21614b	55 G A ---	---	TGTCTTTAACCTCAAAAGTCCAAATAAACATATAGACATTTTGANTATAGCTAT[C/G/A]TTTTAACA AACCTCATTATGATCACTGTGCAATTTTCAGTCACCTAAAAATACGGAACCATGACTATTAAATAACA TTTACTGTGTGGGTTTGTGGGACTGAACATTAACCATACGTGATTTCTAAGGTACTAGGGAGTT GGAACAGCTACTACGGGTCATGGTATTTTGGGCAGTTGGCTGTGTGGG
WI-21615b	151 C T ---	---	GACCGAGAAAAAAGTCAAGGCATATGATGTTTGTGGAAGTATCACATGACTATTTCAAGCTTATAGA GAACTTGCAAAAAAGTACAAGATGGCTATTTTAAATTTACATACATATTAAGATAAGGATGGACT CTTTCACTGAGTATTAT[C/T]AGGACACAATCGACGGATGTAATCTATTTGANTTATACCATAGGCC TATTCTATATTGGCCAAAGGGAAGGATGGTGGTACTGTGGAAACGGA

WI-21981	61 T A ---			TGTCATCTCATTCTGGAGAATCATAGATGTGGCAGAAATACATATTTCTTGAAGAAAAAAATTTA/GTCTCCCTTATGGGTACTGTGATTTCAATAGGGTGTGGGATAAGTACATGACAACATGCATGGGATAGA CACTCTGTCTCTACAGATCCGTGCTTTGGGAATTACAGGAACATAAAAGGATATAATGGATGGGTTATTACTTTTACATGTGGACAATCTAGTTGTAGGCGTTTAAAGGTTAAATTTGG
WI-21660	120 C T ---			TCCAACTAGCCTCTCAGTATTTAGATGAGGATAGAACAGATACGGGTGAACACGCCCTCTCCACTGCTTACTGTGTGTACCAAGAAAGGCAGAAAGCAGCTCACCAAGCCTAACCTGGCC/C/TJTGCTTTTTTCAGGCTTCTCAGGATGCCACAGCACATACTGGGGAACCTGGGATGCAGGGAGAAAGCCAGGGTCTGTCTTCAGGAGGGTCAACAGC
WI-19105c	211 C T ---			TGGAAGTAGCCCTTCTGGACAGAAAGAATAATTTGTGGTCCATGTGGTTTGAGTCTGTTAAGAAGGACACTAAGGCACATGGCTGGTGATCTTTGCGTCTATAGACACGGGTGAGCTCATGGTGGAACTCCTCTTGTCTGTAGGTTTCCAGGGCTGGCACAGAGGTGAGGGCAGAAATNTGGGGTCCAGTGGATCTCCCCACAACTTC/C/TJCCAGGGCAGGATTTCCACCCAGGGCCAGGGTGCCCG
WI-19105a	33 T C ---			TGGAAGTAGCCCTTCTGGACAGAAAGAATAATTT/CJGTGGTCCATGTGGTTTGAGTCTGTTAAGAAAGGACACTAAGGCACATGGCTGGTGATCTTTGCGTCTATAGACACGGGTGAGCTCATGGTGGAACTCCTCTCTGTCTGTAGGTTTCCAGGGCTGGCACAGAGGTGAGGGCAGAAATNTGGGGTCCAGTGGATCTCCTCCAACTTCTCTCAGGGCAGGATTTCCACCCAGGGCCAGGGTGCCCG
WI-21760c	81 C A ---			CAAACCTAGTCACTCTACTGATGCAAAATGATTGGAGGTGCTTCTCCTAGCTTTACAATAAGNGGAGGACCTCTGACTGCA/C/AJCCCTCTGCTCAGTTTCAGGGCA
WI-21760a	35 A G ---			CAAACCTAGTCACTCTACTGATGCAAAATGATTGGAGGTGCTTCTCCTAGCTTTACAATAAGNGGAGGGACCTCTGACTGCAACCTCTGTCTCAGTTTCAGGGCA
WI-21569b	198 T C ---			TCTGCCATATTGTTCCAGCACCACCTATTACTGTTATTATTTCTCTTTGAGGAAAAACCCAGGNATTAAGAAATCTGGTTTGAATTTCCATGATGCCCTAACTCTATGGTTAAAAATCCTTTTCTTACCAAAAAAGGA ACTTCTTAATCACCAGAGAAACAGAGGGAAGACTGAGATATGTTTGCAGAAATTTATCTCTAC/T/CJAGAGACAATTCATAGTTTCAATAATCTTTCAGGGTTGTGCTTTACTTGGGGGGC
WI-20934a	72 T G ---			CCAACTGCAACATAGTCTTCATTCTTAAAAAGTACATAGTAAAGGTATGAAAAACATTTGTATTCA GAGAA/T/GJCTAAGACAAATGGTCAAAATATTCAAAATGGCCTGGCAGTGTAGTAAATTCAGCAGAC AAACAGCATGAGAAAAAGGCCGGGAGACAGTAATAAATACGTGCCCATTTGCAATGAGTTACCCCAATC AAGCCCTTTTACCTCCTTAAGATGGCAGATTAGAAGACCCTNTTCCCCAGGAGA
WI-21561	55 T G ---			TTTCCATTTTATTCAGCCGGGCCATCAGAACAAATAGCATCTATACCTTCGAAACCT/GJCCTCTTAACCTCTCCAGGCAAGAAAGGAAAAAGTGATCATATTGAATTCCTCAGAAATGGTGGGATCTCAAGACTT TTAGAAAGTGCTTATTAAGTATAAGAGGCTTGAATATATATGATGATAAATGGTAGCCCTTCTGGA AATAATTTTGTGTATCTGTTTAAAAAGATTTTGGATGCATTTGTCCCCA

WI-21961c	200 T G ---	---	AGCTTGTGAAATTTGGTACTTACTACCTTGAATCTCTTTATTATTATTACTTTATTTTCCGTAAATTTGGGTACAGGAGTATTTGGTTATATAAGTCTTTAGTGGCATTTGTGTGATTGGTGACACCATTAACCCAAAGGAGTATACACTGCACCATACCGGTCTTTATCCCTCGCCCCC[T/G/C]TCCACTTTTCCCCTCAAGTCCCAAAAGTCCATTGTATCATCTTATGC
WI-21961b	73 G A ---	---	AGCTTGTGAAATTTGGTACTTACTACCTTTGCAATCTCTTTATTATTATTACTTTATTTTCC[G/A]TAAATTTGGGTACAGGAGTATTTGGTTATATAAGTCTTTAGTGGCATTTGTGTGATTTGGTGACCCATTACCCAAAGGAGTATACACTGCACCATACCTGGTCTTTATCCCTCGCCCCCTCTCCACTTTTCCCCTCAAGTCCCAAAAGTCCATTGTATCATCTTATGC
WI-21956	26 T G ---	---	CCCACTTGGGTCTCTTCAAGTGAAT[T/G]TCTCTTCTGTTCTTAAAGCCCTTTTAAATGAACCTCCATTCCTGTTCTGAAACTTGCTTAGTCTGTTTCTGCTTCATGCCCTCAGTCGAATCTTTCTTCTGAGCGCGCAAGGACTGAAGTTGCTGTGGACCTGTAGGGTTCGACGCCGGTAACTCAGGGTAACTCCTATCTTCCACCGGTAAACAGGGGTACATTATGGGGTCCAGGTT
WI-21966	148 G A ---	---	CAACATACATTATGGCTGCCCTTTATTTAAGAAATGTTTACTGAGAATCTGTACTGTAAACAACATATTTTGTAGAACGATGAGTGAGAGTGTGTGTGTGCGCGCGCGGACGGCATGGCACTGAGGGGATTGCAATGGG[G/A]AACAGGATAAAAGGTATAAAACTTTGGTCCGAAATCTTTGCTTATTAAACCTTGGCCCTGCTCCTCACAATGTTTCTACACTTAATTCATAAGAGAGGTAGA
WI-21930c	146 G C ---	---	TATACTGGTTTTGGTTACATGGATGAATGTCTAATGGTGAAGTCTGAGATTTTAGTGTACCCATCACTGAGTAGTGATGATGACCAACTTGTAGGCTTTTATCCCTTACCCTACCTCCACCCTCCCCATTTTGAGTCT[G/C]CATAGTCCATTATATACACTCTGTATGCCCTTTGCATACCCATAGCTTAACTCCCGCTCTAGTGAAGAAATTCAGGACGGGTCTTCAGAGCAGAGGGCTTGGTTCAAGTCCCTGTTCTGCCA
WI-21139a	165 T C ---	---	CTTAACCTGACATGACCTTGAGCAAGCCACTTAATTTCTCTGCTCTCTCTGTGAAATGGGTACAA
WI-20317b	217 G T ---	---	TGTGGTTCAGCAGTAAAGGAACTAATACAT[C/G]GTACAGCACTTCAGCACAAAGCCTGGGCACACAGCACTGCATGGAAATACACAGGTAAACATTTTAAACAGTGGGGACAAATTTTAAAGTACGTGGCCAGCTGTGGTGTCTTGTGGTCATTAAAGACAAATGTTAAGANTCAGGAGTACTTAAAGTCTAGTGGTTACA
WI-22082e	179 G A ---	---	AATTTTGTCTCTCAGTCTTTCATTAAAGTAAATCTAATAGATGATATACATATTACTGCAGATAAAACCATCATCAGAAA[G/T]TATTAAATTAATGCATATTTTGAAGGCTACTCTCAGGACTTGGTTTGTGTCCTCCCACTGCACATAAATGTCCCTTTTGTGAGTATTGGTTGTGGCTTTTCCCTTTTGCATAAGAAATATGTCCATTTAGTCCAGAGGCTCTTGTCTTATCCGGATGACGGAGGTACACGGGGCTCGCTCAGTCCCGCGAAGGACGTATTC[G/A]CTGAACTGGGACGAGTCTACTCTCCCCCACAGGAGCCACGATTTCAAAATCCTCTTGTGTCACACTCT

NI-2082b	67	CT ---			CAGGACTTGGTTGCTGCCAACTGCACATAAATGTCCCTTTTGTGTTGAGTTATGGTTGTGTC /TGTTCCTTTTGCATAAGAAATATGTCCATTTAGTCCAGAGGCTCTTGCTTTATCCGGATGACGG AGGGTACACGGGGCTCGCTCAGTCCCGCGAAGGACGTATTCGCTGAACTGGGACGAGTCTACTC CTCCCCACAGGAGCCCCAGATTCAAATCCTCTTGTGTCAACTCT
NI-20993	139	AG ---			AACACAACTCCATGCTTTCAAGATCCCACACCCAGATACTAAGACATATTAAAAATTTACAGCAAT TAAACAGTGTAGTTTGGTACAATAACACATATAGCAATGATACAAATTAGGGGAAAAACCCCTGG GCTTCT/GJTAACAAGTGAGTATACATTAAAGACAGATTGCAGAAATGGCTTCAGGATTAAATTTGA TTAATTTAGAGAGGCCATTTCAGGCTTCCTAGCTCATCCACACATCACC
NI-21723b	125	AG ---			AAGCGATTTTATTAAATTGATTTGGACATACTGTAGGTCAAATAATTTCTGAAGATAACAATTA TGGACTTTAAAGCTCGACATAAAATTAGTAGCTTCAAAAAGGGTTAGTCATATTCCTCCCA/GJCAACA GCATGATAAAATAATTCAACTATGTAGAAATATAGAACTCTAGGACTAGCTGGGAACTCGGAAATC ATT
NI-21723a	82	GA ---			AAGCGATTTTATTAAATTGATTTGGACATACTGTAGGTCAAATAATTTCTGAAGATAACAATTA TGGACTTTAAAGCTC/GJACATAAAATTAGTAGCTTCAAAAAGGGTTAGTCATATTCCTCCCAACA GCATGATAAAATAATTCAACTATGTAGAAATATAGAACTCTAGGACTAGCTGGGAACTCGGAAATC ATT
WI-22132	99	TG ---			CAACAGATGCTTGAGCCAAAAAGCAACATAGGCGAGAAATACAATTGAGAAATATCTTCATGTTTC AACCTTTAATCTGACTGGCTTTTACTATCCTT/GJCCCCATTTCTCTAATCTCTTTGCTTACAA TATATTACCTTCTAGGTATCACCTCATCCTATAGGAATGCCTCTAGTTTAAATGCTGCCCCAAACA ATACTAACCCATTGAAGGATACTATGGAACTTTAATGGGACAGTGGG
WI-21006a	106	AG ---			TGACAGATCACACCACATTTGTTGTAACTTTTCTCCTTCAAGAGTCACCTTAGCTTAAGCCAGAA GATTCCTTAAGAACACATACACACATGTGCACACAC/GJAGAGGCAAGTACAAAAATGTAACC CCACCAAGTGCAATGTGAATGAAAGTGCAAAAAAGGCTTCATTTGCAAACTCTGAGGATCATTTCTCT CTGCTTCAGGAAATAAACAGAAAGGTCCTAACTGCCCTAGGCCT
WI-21761b	138	CG ---			CTGAGGCCTGCTTAACCTCATNTGACGGAGCGAGTTTCTGCTTGGAAATAACTGAAAAGATTTCAT TTTCTCTTTGTGTACAAAGGATTCAAAATAATTTTACATCTTCTTCTGCCAGTTAAACGTCGCCGTGG CTC/GJCAATACACACCACCAAGCCAAAGCGTAACCTTGGCTGCCTCAGGAAGGCTGGGAGGAAGTGCCAG ATGGTA
WI-21079c	166	GA ---			AATGAAAATGCCACCCAGAGGTTAACAGCTTGCCATGCATGCAACTGTGTGCGCAAAATCAAGTTGT TTTAATACCAGTGTGCAGCTTTGATCTCCATGAAATTAAGCTGTGTGCTCAGCTGTTTACATAA CTCAGGCCACCCCTGAAATATCTGCTAGTGGG/GJAAATTTACAACCCACTGACCATCTCAGCTCAAA GCCAGATGACTATCACCTACACATCTGCCAGGGTATAGGCATGGGCAAT

WI- 21079a	50	G A ---	---	AATGAAAATGCCACCCAGAGGTTAACAGCTTGCCATGCATGCAACTGTGTG[A]CGCAAAATCAAGT TGTTTTAATACCAGTGTGCAGCTTGATTCCTCCATGAAATTAAGCTGTGTGCTCACTTGTTTACA TAACCTAGGCCACCCCTGAAATATCTGCTAGTGGGAAATTTACAACCCACTGACCATCTCAGCTCAA GCCAGATGACTATCACCTACATCTGCCAGGTAATAGGCATGGGCAAT
WI- 22129a	45	T G ---	---	TCTGTAGATTTTAGCCATGCCATATATTAACCTTTAAGGAAAAG[T/G]TTATATAACAGTCATTGCT TGGTAGAATCCAGTCTGCAATAAGTTAGCTCTAACAGTTAACATTGAAGCTTATACCTTATATTTA AATGTTTAGCAATCTCTACTACATTTTCAAATATAAATAATTTGGTTGCAAAATCCAGNAAAGGCA TTAACCAACATGGGACTGATCTCTGGGGCTTCCACCTGACTAAGGTTTTA
WI-21941	79	A G ---	---	TGGAGTTAAGTGGGCTCTGCTATTTCCCCCAAGAGGACTCGGAAGATGTTGATCCAGGGCAGAGT GAGGGCAGAC[A/G]GGATGAGGCTCTTCTGTAAAGTCCAACAGACGCTCACAGATGCTGGGAGGCT GGGACTGCCAGGTTGGAGCCTCACCCAGAGAGCCTCACTGCATTGACCCACACCCCACTCACC CAGCACACAGGCACACGCGCAGGGCACACGACACACGNTGCACTCAACACGC
WI- 18916b	42	C T ---	---	AATGGCATCCCTGTGATACCAAAACATCTTCAGCAGCTCAGC[C/T]GGCTTCCCACCTCTTGGTACCC GGTTAACTGCCAGNGGGTGACAGTGATGCCAGGGCTCGCCCACTACTGCACTGGACACAGCCTCACC AATGCCACCTTCATA
WI- 18916a	35	G C ---	---	AATGGCATCCCTGTGATACCAAAACATCTTCAGCA[G/C]CTCAGCCGGCTTCCCACCTCTTGGTACCC GGTTAACTGCCAGNGGGTGACAGTGATGCCAGGGCTCGCCCACTACTGCACTGGACACAGCCTCACC AATGCCACCTTCATA
WI- 19828c	200	A G ---	---	TTCCCTTCTCCCCAAGAGTGGGCAGAAAAGCTTTGTTAACCTCCTTTTACAGATGAAGAAAACAA GATCAGAGGTGCTAAGTGCTGTAGCCTAGTGCCAGGNCCTTCTGGCCCAATTTCTGGTTCTCCCCAAG CCCATGCTTCTTCCACTTCTCACAATCTTTACTTCTTCTCTGACCCTCACCACCCCAAAAT[A/G] JCTTTTAATCTGGAAAAGAAACCCAGCTGCACACTGGGCACACTTGACCT
WI- 21863b	47	C T ---	---	CACAAGAGTCTGTACAACCTTAGGGACACACGCCCTGGCCCTGCCCT[C/T]AGCTGCATGCCACCCCTC ATATCCCAACCCCATCCCAAGCCTCCTGCCCCGACACCCCAAGGCTCCCTGCTGTGGTTGAAGTATTTT CTCCAAGGCAGGAATGAGTCTTGATCCAAACACAGCATCT
WI-19860	51	C G ---	---	TTGACCTAAAGCCTAGCATAAATAGCTAAGTAGAATGTTTCCAAAGATG[C/G]CTGCATCAGTAT CTCCCATCCACATAATTTCTGTTGATTTGCCATTACCCATAAAATGGTGGGATCTACCTCCCT CCTTGCAAAATTTGAGCTGGNCCCTCTGATCCTGTCTAAGGATCTGAAGCC
WI- 19889b	80	C T ---	---	ACCCAGCTCCTCTTACCCTCTGGCTTTCAGTAGGCTTTGGCTAATGGCCANTGAACTGCAGGGCAAG AGGAGTGAGGGG[C/T]ACAGCATTTATTTCCCTCTTTCACTCCCTGTAGCTTTGGTAGTGGCTGTAT TTCTCTACTGATAGTCTTGGCCACAGTCGTAACATTCG

VI-9891c	172 C G ---	---	TGTTGGTCTGAGAATTACAGCTTACTACAAGGAAGCTGAGAATTGCTTGGTGGCCCCCTCCCCCCCG ACTCCTCTGTCTGGGAAACGTGGCTTTGNCTCCAGACACAGTGTGATGCCAGCTCTCCTCAGCGG AGTCCCGATCCCTCAATTGGCATCTGTCTGACTC/GJGCTCTCCGGGGCGTGGGGCGTGTGTGT CAGCAGCGGGCGGAGGAAGGAAGGAGATCCAGGGTCTGTCTG
VI-0155a	81 C T ---	---	GCACCTGTAGGGGTAGCTTCCATGGTTCTCCAGCACGGGTGTACATTACCTTAGGCTGACCAT TCCCTTGGGGGG[C/T]GCAAACTGCTTTGAGGAAATNTCCCGAGGAGGAATAAACTAGAAGACGC ACCTGCTATTTACCATATCTATGGAGAATACAGCTAATGAAGTGTGGCAGAGCTTGGCCGTGTGA GTGCCCAAGGTAAAGTCTCTCTCTGTCAGTCCAGAGCAGAGACTTCTC
II-0270b	91 T G ---	---	AGCCATACAAATGCATTGCAAGAAACAAAGCAGCTGTACAGGAGTGGGACGCGTCAGTGTACAAT ACATTCATGTCCAGGATAAGGAGCA/T/GJACACCAAGGATTTATACCGTGGCAGCGGTATAGGCA CGATGATACAAAATATAAAGTATATTTCCATCTATATAAATACACAGCTGGGTGGGAAGGATGCT GGGTGATCTGTGTTCCCGCAGAGGGCTGGGAGGCGAGGNGGGTGGTGGAA
VI-0270a	53 G A ---	---	AGCCATACAAATGCATTGCAAGAAACAAAGCAGCTGTACAGGAGTGGGACGCG[G/A]TCAGTGTAC AATACATTCATGTCCAGGATAAGGAGCATACACCAAGGATTTATACCGTGGCAGCGGTATAGGCA CGATGATACAAAATATAAAGTATATTTCCATCTATATAAATACACAGCTGGGTGGGAAGGATGCT GGGTGATCTGTGTTCCCGCAGAGGGCTGGGAGGCGAGGNGGGTGGTGGAA
VI-20622	130 T C ---	---	CCACTTTCAATATTTTACAAATGCTCAGCGCAGCAAAATATGAAAGCTTCAACACTTTCCCTTTGTA ACTTGCTGCAATAAATGCAACTTTTAAACAAACATACAAATTTCTCTGTATCTTAAAGTTGAA[T/C] TAGTAAATTTTATGATGTACTCATATTTTATCATATAGCTTTTATGACATCATTTGCCAATACATA CATTATTTCTNTAACTTTATTTTACAATAAGCCAAACATCTGTCATGCAG
II-0768b	190 C T ---	---	TCCCACTCAAACTCCACCCCAACCTTCTGGAAGGCGAGGGCTAACAGGACCTCCTGCCTGCCTGC TCAGGACTGATTACTTTCAATCCAGCTGCAATGCAAACTGAACTCATTTCTGTATATCACCACTTA CAGGAGAGGTCTATTTCTGGGGCACCCAGAGNTCAGCACACATCTGCTGGGA[C/T]CAGGGACTC GTAATTCGCTTGGTCCAACTCCTTCTATGGGGTTAGCTGCCCTCATTC
VI-0768a	71 C T ---	---	TCCCACTCAAACTCCACCCCAACCTTCTGGAAGGCGAGGGCTAACAGGACCTCCTGCCTGCCTGC TCA[C/T]GACTGATTACTTTCAATCCAGCTGCAATGCAAACTGCAAACTGAACTCATTTGTATATCACCACT CTACAGGAGAGGTCTATTTCTGGGGCACCCAGAGNTCAGCACACATCTGCTGGGACACAGGGACTC GTAATTCGCTTGGTCCAACTCCTTCTATGGGGTTAGCTGCCCTCATTC
VI-21909	153 A T ---	---	TGTTTGTCTTGTGCCAGGTACTCTACTGCTTTACATAAAATATTCATTTCTGTACATCTAACGGCAA CTAAGTATACGCTTACATCTGCTAGTGGCACCTTAAATAGGATATTTGTTGGTCATCTTTAAAGAAA TGCTTTAACATACCAAAG[A/T]AGTGGGAATCAATAGAATAAAATATTTAAGTCTTACAAAGCGTAC GACACTAAAGTAATATAGGATACCACTAAATTTATATTTCTATGTATGGAAAG

WI-22202	128 A G ---	---	---	TGTTGCTTTGGTTGTTTCTTGAAACATATTGGAACACTTGTTTTCATAAGCTGTCTGACAGT GGCACAATCCCATCCATCTTCAGGCCTTTTAATAAGGTCATTATGAATCTGAATTTCTA/GJTAAAT ACTCTGGTGCAATTCATCTGCAAAAGCAACTGGCACAACCACTCTTGGCGGTGCAGCTCTCGG AGAACATCTAATATTGAGTCTAGTTCTGTGCGGAACCTCTCCAGCTCAC
WI-22189	70 C T ---	---	---	CCAAGGATGAAATTTCCACATTTATTTTNCCTTTATGTGAATAGAAAATGGCAGTGAAGTGTCTATG AA/C/TJGAGGCGAGGAATGGCATGGCGCTGCGGTACCAAGCTGGACGTTGTGCTTCCAAAGTACAC TATGTGTGGTGAGACAAAGGGT
WI-22283	109 T C ---	---	---	GGGAGGCATCATAGAAAAAACCCCTCAGCCAGAAGTTAGGACATTGTGATTCTCAGCCACTAACGA GCTGTATGACCTTGGTCACATAGGCCTCTGCAGGCTCTGGTTG/T/CJTTCATTTGCAAAATAAAACCCA GACCGGGTCATCTTTCAGTCCCTCCAGCTCTATTTATTTATGATTTGCTCTTAGTCTTTATGAGCCA TGTATGATTTATCAGTCTCCCTGATGCACCTCAACTCCAATGATGCAAAAG
WI-22290a	136 C T ---	---	---	GACGTCTCTGAGGGCTCTGCCAGGTGGATTAGGTGAAGAGAGGTTTATGGCCCTCTAAGCACCCG GCCAGTAGTGGGAATGCCACATGCAATGGTGAGTGGGATCTGGGGGGGTGAGAACCTTGTCTTTT /C/TJTTCCAAATCTCTCTTAGCCAGAACTTTGCGAGAGCCCTTNNATTTCTCTCCCTCTATTCC CCTCCTTTCCCAATGTGTAAAGTCCCAATCCAGACCCCTCCAG
WI-22292	53 A G ---	---	---	CCAGTGAAGGGTTTACAGCCATAGTGAGGTTCCCCATTGCTCAGTACCAGA/A/GJTTTGAGTAC GGTCGTTTAAAAAATACCTATCTGACCACAGTGGAA
WI-22387	186 C T ---	---	---	ACCTTGACACCTGCCATCCGGTGCCATCTCTCGCTGGCAGCATCTATACCCACTCTGGCTCTGAAAG GCTTGTCACCCAAAAATGGCAGCTGGGGCTAAGGCATATTTAAACAAAGGCTCCAAGGACCCCTT TCACCTGGGTCTAGCATCCAGCCTCTCTCAGCAAGGCAGGATTGTGGT/C/TJCTTGTGTCTTCTG AACAGGGCCAGGGCAGCCAGGCATGCCATCACTGCAGCACTCAACCT
WI-22395b	127 A G ---	---	---	GCCGTTCCAGTATTGATAATAATTTGTGTTTAAATTTCTATACAGAAATGGTCTTTCTTGAATATTT GTAGGGATGGATGAATTGAAAGTGAATTAAGTCAAGATAAAGGGGGCAACTCTTTAAT/A/GJAAG GAAATGTTACCAATCCATAGTGAAGAGTAGAATATGTTCTTTTAGAGTAGNTAGAAAGTCCCCAGG CTCCT
WI-22405	90 A C ---	---	---	TTTATGGCTCCTGAGTCCCTTACCAGCTACACTTTACCTTTGTATCTATAAAAGTGAATTTAGAGT AAATACATTGGCTGAAGTCG/A/CJGATCAGGTGCTCTCCACCAAAAGCAAAACAAACTGCTGA AATGTGGCAAGGTTCTCAGTG
WI-22419b	67 T C ---	---	---	CCCTTCTGGACAGTTTGTCTTATGTGTTTCAGACAATCAAGNCTGCCCTTCCAGGCACAGCCAGTGCT /CJCTGGATGGCATCAGCACAGGCTCCCTGCCCGGCCCTTGAAGCATGGCTGTGTGCACGAT
WI-21342d	59 T C ---	---	---	ATTTTCCCTTCTGTGTTTCGTAATTTCCCTTTTGTGCTAGTAAATNAGCAATACACTGA/T/CJTGGA ATCTGCATGATTAATAACATTAAACAAGTTTCATAAACACACCCCATATCAGAGTATAAGCAAGAG GTTGAAAAATATCCCTAACCGAATGCCAATAGGTATCCCTCAAAATTCACATTTCTCCTCTAGTT T

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WI-21763b	154 A G ---			CATACCCCTTTAGGTGCCACATTGATCTTAGTTAACAGTCTTGAGTTCCTCTTTAGGCTTCAAGA TAATTGTGATTTTCATCGCACCCAGAGATACTTCCAAGTGGAGCCAGGCTCAGACTGTTCTCAGTCACT GCTCTCCACACAGCTGATT[G]CAGACATTGCCTGTGCTTCTTCTACCCAGCAGCTGTCTAGTGCACCTT GA
WI-21763a	135 T C ---			CATACCCCTTTAGGTGCCACATTGATCTTAGTTAACAGTCTTGAGTTCCTCTTTAGGCTTCAAGA TAATTGTGATTTTCATCGCACCCAGAGATACTTCCAAGTGGAGCCAGGCTCAGACTGTTCTCAGTCACT T[C]GCTCTCCACAGCTGATTACAGACATTGCCTGTGCTTCTTCTACCCAGCAGCTGTCTAGTGCACCTT GA
WI-22440	64 A C ---			CAGTCCATTTAGTCCCCAGTCGAGGGTGCACTTCTTCTTATCTTGCTTAAGCCACTTGGGT[A/C] TCCATTCCAGCTCTGCACCTTCTCCAGTTTCTCATGTGAGAAAGTCCCTGGAGGGAGGCTTCTG AAAT
WI-22449	74 T C ---			CAATGAATGTTGTGGCATATGATTTNCCATTGTGTGACAAATTTATTAGCTGGCATCCGAAATACAGTAG TTCTTTT[C]GAAAAAATACACAATGGGAACCTGACA
WI-21965a	112 A G ---			CAGGTTCCACCAGAGGCTTTATTTCAGCCACTCAGGACCCCTGGCTTCTGCTCCAGGCACTGAACA CAGTCAGGCTCTCTAAACACTGGCAGGGACCTCCCCACAGCC[A/G]CCCCACAGGGTCTCTGTT TCCCAAGTCTGATGGATTTCAGGCAAGACCTTCACACATTACCCACTACCTGCTGGAGAGGAGGTC ATGAGGCAGCCTGTGGTGGCCAGCTCAGTGTGACACACTGCCAATGTGC
WI-21687c	115 C G ---			CACCTGGCAGTTGAGTCAGATTGTAGGAAAATTAACCCAGATGGGTCTACATTTTNTTCAAGTTCA AACCACATGGTTTCTAGTCAGAAAGTCTCATGGACTTCTTCTCCTAAG[C/G]TGTCTATGATCAGAC CACTCTCTAAATGTGGCTTTTACCCATTACAGGCTACAGTTGAATCAGGCAGGAGCAGCTGCTGGAG AG
WI-22374a	149 T C ---			AGCTTTTACAACAAAGCGAGGGTTTAAGGAGCCTGAGAAATTTTCACTATTGACTATACAGAG TCTTCAATTCCTCAAAACAGTTAATAGTAACTTGGTGGCACATACAACATGCATTGAATACTCTGTAT TATTCAGTAACTAA[T/C]AGGNTCCTGCATCATCTCTTCAACA
WI-22250b	132 C T ---			ACTTGCTTCAGGCAGGCACTTCTGGGATCTAAACTAGAAATCCTTGAAAACAAATAGTACCAGCCA CTTTGAGGAATGTGCATTCATCTAGTGGTTATTATGGGCTCTGCTCCTGCTGGCTGTGTTATG[C/T] GGANCCAGGAGTGAGGAGAGCCGTGGAATAGACAGGGGAG
WI-22250a	89 G A ---			ACTTGCTTCAGGCAGGCACTTCTGGGATCTAAACTAGAAATCCTTGAAAACAAATAGTACCAGCCA CTTTGAGGAATGTGCATTCATCTGATGGTTATTATGGGCTCTGCTCCTGCTGGCTGTGTTATG GGANCCAGGAGTGAGGAGAGCCGTGGAATAGACAGGGGAG
UTR-04932-2b	192 G C ---			GCAGCATCTCTCTCCACACCTCCAGGCCACCTGGGGCCAGAGCACCTCATGCCCCAGCAGCAC CTACGTGGCCCGAGTACGGACCCGCTGGCCCCAGGTTCTCGGCTCTCAGGACGTCCTCAGCAAGTGA GCCACAGAGGTTTGTCTGGGACTCCAGCCAGGGGATGAGGCCAGCCCCAGAACCTG[C/G]CJAGTGCTTC TTTGACGGGGCCGCCGTGCTCAGCTGCTCTCTCTGGGAGGTGAGGAAGGAGGT

UTR-						GCAGCATCCTCTCTCAACACCTCCAGGCCACCCCTGGGGCCAGAGCACCTCATGCCAGCAGCAC CTACGTGGCCCGAGTACGGACCCCGCTGGCCCGCCAGGTTCTGGCTCTCAGGACGTCCAGCAAGTGA GCCAGAGGTTTG[C]/TJGGGACTCCAGCCAGGGGATGAGGCCAGCCCGAGCAACCTGGAGTGCTTC TTTGACGGGCGCGGTGCTCAGCTGCTCTGGAGGTGAGGAAGGAGGT
04932-2a	149	C T	---			
stFIBBb	412	G C	---			GTGAGGAAGATGGACCTGGACAGACAGTCCACACCTTGCGCTGAGCAGCTGTGATTGTGCCA CGGAGCATGAGCCCTTTCCCGACGGCCCTTGCCACTGTCTCTGGCCCTCTCTCTGATCATGCCAGG TTTGACCCAGCCTCGAGTCTCCCATGTTGTAGTACATTTCCAAAGATGCAGCCAGGAGCCTCTCTGA AGGACCAGTCTGTTACGATGGTCTGAGCTTCTTAGAACCTTCCATGGTT
stFIBBa	341	T C	---			GTGAGGAAGATGGACCTGGACAGACAGTCCACACCTTGCGCTGAGCAGCTGTGATTGTGCCA CGGAGCATGAGCCCTTTCCCGACGGCCCTTGCCACTGTCTCTGGCCCTCTCTCTGATCATGCCAGG TTTGACCCAGCCTCGAGTCTCCCATGTTGTAGTACATTTCCAAAGATGCAGCCAGGAGCCTCTCTGA AGGACCAGTCTGTTACGATGGTCTGAGCTTCTTAGAACCTTCCATGGTT
stIGLV2	61	T C	---			GTGAGGAAGATGGACCTGGACAGACAGTCCACACCTTGCGCTGAGCAGCTGTGATTGTGCCA CGGAGCATGAGCCCTTTCCCGACGGCCCTTGCCACTGTCTCTGGCCCTCTCTCTGATCATGCCAGG TTTGACCCAGCCTCGAGTCTCCCATGTTGTAGTACATTTCCAAAGATGCAGCCAGGAGCCTCTCTGA AGGACCAGTCTGTTACGATGGTCTGAGCTTCTTAGAACCTTCCATGGTT
stSG1001	70	T C	---			GTCACAAGAGGCGAGCGCTCTCGGGACGTCTCCACCATGGCCTGGGCTCTGCTCTCCTCACTT/CJCTC CTCACTCAGGACACAGGTGACGCCCTCCAGGGAAGGGGTCTTGGGACCTCTGGGCTGATCCTTGGTC TCTGCTCTCAGGCTCACCGGGGCGGACACTGACTCACTGGCATGT
7c						GTTACGGCTCATCTTGAACCTCCTGGTGTCAAGCGATCTCCACCTCGACCTCCAGGGTGTGGGAT TA/T/CJAGGCATGAGCCCCCACACCTGGACACAAATACATTATATACTCTAAAGTATAGGATTACT TTAAGAGAAGGAAACTAAAGTATGATGGCTTACTTTCTAATCC
stSG1001	33	G A	---			GTTACGGCTCATCTTGAACCTCCTGGTGTCAAGC[G/A]ATCCTCCACCTCGACCTCCAGGGTGTGG GATTATAGGCATGAGCCCCCACACCTGGACACAAATACATTATATACTCTAAAGTATAGGATTACT TTAAGAGAAGGAAACTAAAGTATGATGGCTTACTTTCTAATCC
stSG1002	63	A T	---			TAATGATAATTAGGGCATCTTCCACACGAAGATGACACAATTGACCCAATATCATTGAGGC[A/T] AACAGTTTGGGCTGTTTTCAGTAGTATGACAGTGA
stSG1009	36	G C	---			GTGAGAAAGATCGTCTTCTCCTCCCTCCCATGACC[G/C]GGCTTCCCGGGCACCTGTGGTTTTCC ACCCGAGACGGCCTTGTAGGACCCACTGCCCACTCCGCTGCTGTGGCTGGTTCGGCTCCTCTAG GGCTCGAGTGTTAAG
stSG1011	107	C A	---			TAGGCTTAAACCTGGAATCTACAAGCCAAAGTCCCTCCCTGCTGAGGGGAGTACCCCTCCATTGGGC ACAGTCCAGACCCCAAGTCAAGATGCCCATTTCTTGGG[C/A]CTCAGCCCTCAGTCTCTCATTTCC ACCAGGCCGTGCTTGTGATTTTCTCCCTCCAGTGAG
stSG1012	89	T C	---			TAGTAGGTAAGAAAGCAAGGAGGATTGCTTATCGGATGACTGTTTACAGTGGTGTGACACTATGC CGTGTTCACGAACACTTAATA/T/C[GTGTGTGTAATCTGATTTTATCCTCGTCTTACAAATG TTGAAGCAATATTGCTAGCACTCTGCTGGACATTAAGTCCG[C/T]GGGAGGAGAGTGAACAGGAA TCGATCTTTTGCTTTAACTGCCCTTAGTTAGGAGATGTTAAATACTTGGC
stSG1017	42	C T	---			

stSG1019 3	136 GA ---	---	GGAACAATACTACCTAAGGACAAAATACTATTATAAAAAAAGTCTTCTAGTGATATTTGTGTAACACATTTCTGGAGCTGGTAGGAATAACCATTTTATTTTCTGTAGTGCCATCTATACAACTTTTAC TIG/AJTGTGAAAACAGAGATTTAAGTTGCAAACT
stSG1020 2c	143 GT ---	---	AAGCTAACTTAGGTGAATGGTGCCACTCAAAGGCTTTCCGAGGGAAGCTCAGTCTGGCTTGGGAGAGTCAGCCTTGGTCACCTCATACGGGGCTCCAGCTAAGCGTCAAGGAGCAGTCCCACTGCTTCTCGCTGTCA/GTCAAGACCACAAGGCAGATGCCCACTGCTGCTCTTCCCTTGTCTACTTTCT
stSG1020 9b	75 AG ---	---	TCCTTTCTCTTTTCACTCTCAGTCACCATGATTCAAATAAACTAATCTCTTAAGATCCCACCTTATTTTTA/GJCTCCAATAAATGTAATTATCAGCTGCTGAATT
stSG1020 9a	34 CT ---	---	TCCTTTCTCTTTTCACTCTCAGTCACCATGATTC/AAATAAACTAATCTCTTAAGATCCCACCTTTATTTTAACTCCAATAAATGTAATTATCAGCTGCTGAATT
stSG1021 8	29 TC ---	---	TACTAGACATGC AAAATGAGAAGATTACAJT/CJGTGAATATTTAAAGAAGTTATATTTGTTTGACAT AATATGCATTGTACCCGGGCATAATAAAGTTAAAGCCAGTTATTCTGA
stSG1025 2	108 AC ---	---	ATAGGTTTCAGGAACAAAATCATTAAATGGAAAAATGAGAAGAACTCTTTATTTTGGACCAATTTTAGGCACCTTAAGAGTTTTCTTCTCCCTTTCCCTTGATCAJVCJAGTGAAGATATGATAGGGAATTC AGAAATTTCTCTCTTG
EST10915 0	123 AC ---	---	CTGTATTAATTAAGAAGGCACTATTAAATGAGGGACGGAAAAATCTACCTGTACACAAAAATTCGTAC TTTAACAGCATCTTCAAATAAACCTTTAAAGGATAATGGTTTACGATCATTTTAAAGJACJATTTTAA GAACTGAGTTATTTGGAC
EST11023 1	166 TA ---	---	TTTTTTGTTAAACCAACCCCTGAAAGTTTCCACATGTGAATATAGATACAACACAGTGAACAAAAAT ATGTGGCCTCCCATGTACATTGGTTACCTATGTACAAGTATCCTATACACCAGTAAACACAGCAGGGC AATTAGTCAATTA AAAAATAAGTACATGTTAJT/AJGTGTAATAAAATTAATTTACAAAAGGCTTT TCCACTCGTGGAATTGATTCCTTTTGGAGGGAGGAGTAATCCTGG
EST14096 8	71 GC ---	---	GGGATGTATATTACAGATAACACAACCTACAATAATACCATCAGACATTGAAAACTAAGGCCATTCT GTGAJG/CJTATTTTAAAACTTGGTGTGTTTGCACATAATGATCTTAAAAAATAATGAATTAACCAA ACCAAGATTCTCTTCTAAAAATGAAAAATTAATGCAGGTACAGGATAACTTTAGGGCTATATCTAATC TGAAG
EST22113 6c	125 CA ---	---	TGCAAAATGTGAGAAGGCAGCAGGGGCCAACCCCTGGGACCTCATCTCTGTCTAGAAATGTGAGGTGG CAGGGATGCTTAAGTCTTCTCTCTGGCAGAGACCCGAGGTGCAGAGATGATTTCTCTCAJCAJCCCTTC TCTCAGGGTCTGTGGAG
EST22555 7	60 GA ---	---	TCAAGCATGTGTAAGGCACCTGCCCCGCCAGACCCCTTCTAATCTTGCACACTGGAAGGTJG/AJAA CCTGGGAGAGAGAAGACACTCCCTCCCTAGCTTCTACCTGGGACCCCTCCAAAGATGAGCATTCATC TTGGAGACCAAAATAAAAAAGGACAAAAGACCAGGGCTCAGAG

EST22917 6	74 C T ---			GTAAACCTTGCAACGCCATGCTAAATGGAAGCCTGACTGACCAGGGGCTCTTGGGCTCTCAATGCA ATAGAAA[C/T]TGACATGGGGCCAAAAGACTTCCAGACAAAAGCAGCGGAAGGTAGAGGATATAG GTTAGCATCATCTGGTTGTGA
EST36458 6	65 A G ---			CAAGTTAGAACCATGCATCAGCTTTTCATCCATGGTGTAACTTAACCCCTCAGGCTGTCTACTCA[A/V G]TGTGGTTTGTAGCCTCACTCGCACACAGGAAGCTTGGAAATTTGGAGGCTCCAAGTCACTCTCCA
EST36745 3	56 A G ---			GAGGGGGAACCTTCAAAGAGGATTCCAACAGTGAAGCAGAATCATGGGGCAAAAGTC[A/G]CTATGG GGCCAGACTGAGGTTGGAACACACAGCACTCCAAGCTGGGCCAATCCCAACCGCTGGTGAAGCCGC ACAGCAGGGAGTAGCCAT
STS- R37410c	201 A T ---			TGTGACCATACCAAAACCTATGCAATAAAAGAAAAAATCCTCAGTTAAAAAAACAAAA AACCTTTGCAATGCTATCATTTTTCAGGTCCTTTTGAAGTGTGAATAAAAGTTCATAGCATTTTGGGA ATTTATGGTTTGAATAAATACAAAATGTGTGATCTCCTGAGACACATTTATAACATTCTGGTATG T[A/T]TATTGTGAGTGGTGCTCTAGTGGCCAAT
STS- R37410b	139 G T ---			TGTGACCATACCAAAACCTATGCAATAAAAGAAAAAATCCTCAGTTAAAAAAACAAAA AACCTTTGCAATGCTATCATTTTTCAGGTCCTTTTGAAGTGTGAATAAAAGTTCATAGCATTTTGGGA ATTTATG[T/G]TTTGAATAAATACAAAATGTGTGATCTCCTGAGACACATTTATAACATTCTGGT ATGTATATTGTGAGTGGTGCTCTAGTGGCCAAT
STS- R37410a	48 C T ---			TGTGACCATACCAAAACCTATGCAATAAAAGAAAAAATCCTCAG[C/T]TTAAAAAAACAAA AAAAACCTTTGCAATGCTATCATTTTTCAGGTCCTTTTGAAGTGTGAATAAAAGTTCATAGCATTTT GGAATTTATGGTTTGAATAAATACAAAATGTGTGATCTCCTGAGACACATTTATAACATTCTGGT ATGTATATTGTGAGTGGTGCTCTAGTGGCCAAT
STS- R42778	74 C T ---			TATCGTGGGAAGTTCCAACCTCATACTTATGCTGCTTTTCTACTTGCTAATATTGGATGCTTCTTGCCA GGCTC[C/T]TTAAATTGTGCTGTAACTGGGAAGAAACCTTCTACTCTCCACAACCCCTGAA
UTR- 04350	125 C G ---			CAATCTGAAGAGATGCATAGCGGATTGGTGGCTTTTCAGCAGCTGTGGGAGGTGGGACTGAGGAGCG ACTGCTAATCAGTATGGGGTTTCTCCCGGGATGGTGAAAATGTTCCGGACCTAGATA[C/G]TGACGA AGGTAGCAGCACACTGTGAGTGCACTAA
stSG1026 6	55 T C ---			GAAATAAACTAAAACTGCAAGCAAAATCACTGTTAATAAGAAATTGTTCTTCTGTTT[C/G]GACAGTTG AAGTGGGTGTGAGATGGCATAGCAATGAACAGTGGGAGCCCAATGAGGTCTCAGAATGCGGGCAAA CTCCTCTGTGAAAATGTAT
stSG1028 2	70 T G ---			GTATAATTCAGCATAAGCCAAAGCCCTTTTAAAATAACCAATACTATCATTTTATGAAATCTTTACA AGA[T/G]AAGCACAGTAGTACAATATTTAAGCATCTCAAGTCTCCATTTAAGAGTTGACTATC
stSG1031 0	128 C/A ---			CACCTTAGATATGAGGAAAATGGTTTAAATGGACACAAAAGGAGTCAGCCACGTTGGAACCAACATAG TTTCATACCACGTTGAAACCATGTGTTTGTATGCAAAATACAGCAAAATAATTTTTCAC[T/C]A]TTG TCAATGCCAATGCATTGAAAGGCCCCAGAAAATGAGAAAAGGATAACAAACTTTTGATAAAAAAGGTA AGAAATTTCTGTGTG

stSG1033 1b	116 T C ---			TTTAAAGCTACATGTCTGAAAGAATGATGCTGCTGATTGAAATAAAGGAAGAAAGGATGATTCGGG GCTCCAACCTGTCTAGGAAGCCTAGACCTCAACACCAACCTCCA[T/C]GCATTTCCCTCTTTGG CTACTATGCTTTTCCCTGACTTCTGCCCTCTCCAGCTCTCTGGGCTGCTGCTTCCACCTGTTTCATCTGA CTTAGGACCTCC
stSG1033 1a	107 A T ---			TTTAAAGCTACATGTCTGAAAGAATGATGCTGCTGATTGAAATAAAGGAAGAAAGGATGATTCGGG GCTCCAACCTGTCTAGGAAGCCTAGACCTCAACACCAACCA[T/C]CACCTCCATGCATTTCCCTCTTTGG CTACTATGCTTTTCCCTGACTTCTGCCCTCTCCAGCTCTCTGGGCTGCTGCTTCCACCTGTTTCATCTGA CTTAGGACCTCC
stSG1243 b	225 G A ---			ATTGGCAATGGGAAATGACACCAATCATTTGATTACAGAAAATGGTTTTATAAATCCTCCTCTTG AAATTATGTTAGGCCCCAGCATGGTAGCTTATGCCCTGCAATCCAGCACTTCGGGAGGCCAAGGAGA AGGATCGCTTGAGCCCCAGGAGTTCGACACCCAGCCCTGGCAACATAGTAAGACCCCATCTCTGTTTTT TTTAAAAAAGAAATCTGTTC[G/A]AAAGTATTTGAGACCAAAAGGAGGT
stSG1345 b	60 G A ---			AACTGACGTATCACAGGGGCAAGTATCTCTGTCATAAATTTGAACTAGTTTGTCTTAC[G/A]CGCT TCACATTTAGCATGGGCCAAATTCAGGAGATGCCATGCAATGTCCATAAATGGGGCAA
stSG1345 a	54 T G ---			AACTGACGTATCACAGGGGCAAGTATCTCTGTCATAAATTTGAACTAGTTTGTCTTAC[G/A]CGCT TCACATTTAGCATGGGCCAAATTCAGGAGATGCCATGCAATGTCCATAAATGGGGCAA
stSG1385 b	117 T G ---			TTAATGTCATCCAGGGGGGCCAGGGATGGAGGGGGGGTTGAGGAGCGAGAGGCAGTTATTTT TGGGTGGGATTCACCACITTTCCCATGAAGAGGGGAGACTTGGTATTTG[T/G]TCAATCATTAAAGAA GACAAAGGGTTTGTGAACCTGACCTCGGGGGGATAGACATGGGTATGGCCTCTAAAAACATGGCC CCAGCAGCTTCAGTCCCTTTCTGTCG
stSG139	69 T C ---			TCGTCTCTTCCAGTGCTTCTGCCAGAAGCATCCCCATGATTTGTGACCCGCACAGCAGCTTTGTGCT [T/C]GCTTTGAGCACTTGCCACTCTGGCTGGTGTCTGCCACTGATTTGTACTGTCTTGCTGCC
stSG1427	103 T C ---			GATCTGGTTCCAGACAAGGCTGATTCAGAGACTCCACGTGGTCAAGGCTCTGTTGTTGTCATCCCT TGCTCCTCCACTCCAGTTGGCTTCTGCTCTCA[T/C]JAGTCTCTCTCCATGTGGCAACAAGATGGC TACTGGTGGTCCAGGTTACGTCTCTCAGCTTGGAAATCCAGCAGCAAGAAGATGTCTCACTCCCA AAGTCCATAACTCAATCCTTGGGAAG
stSG1471	50 A G ---			CCCTGGAGTTTCTGAACATAGGAAGAGAATGCAAGTCATGTGTTAGGTCC[AG/CT]CCCTTGCAATGA AATGTGGGAGAGGAAATAAAGTTAGGCAACATTTAGCAATCAACAGAACCCCTTCCCTATCCTACC GCA
stSG1483	44 T C ---			CAAAACCAAAATCCTCCACGATATATTACTATTAGTCTAAG[T/C]TTTAATCAAAAGTTGAGA ATGACGAATTCAGAATTTCTTTCATACATAAATTGCTTTCCCTAGTTCTGCAGATGGGTA
stSG1696	67 C G ---			CACACCCACAAGTTTCATGCTAATGCCAAGTATCAACTCTTGAGGACAAAGGCAAAACCCAGTGTGCA [C/G]AATGTGGAGGATGTCTGTTGCAGCTGTAGTTACTAATGCAGGAAACCCCAATGCAAGAGGAA AATGCCTGA

stSG1847 b	95 G A ---	---	TTGCAGACAACAATGGAAGCTTTAAACCTCTTCAACACAAATGCTACCCCTAAAATGAAAGAATTT AGAGGTTAAATAAACAAGTGAGAGACC[G/A]TTTACTTACATCAGTTCGGTTTATAGACATTTGAA TCATATCTGAATGACTGACTTGTTCCTCAATGTGAAACCAAAATTAATAAATACTTGATCACTGTGCT TCAACACAACTG
stSG1847 a	49 C A ---	---	TTGCAGACAACAATGGAAGCTTTAAACCTCTTCAACACAAATGCTACC[C/A]CTAAAATGAAAGA ATTTAGAGGTTAAATAAACAAGTGAGAGACCCTTTACTTACATCAGTTCGGTTTATAGACATTTGA ATCATATCTGAATGACTGACTTGTTCCTCAATGTGAAACCAAAATTAATAAATACTTGATCACTGTGC TTCAACACAACTG
stSG1897 a	83 A G ---	---	CTTAATGCCCTTCTCTCTCTGACAGGAGACACAGATGGGTAACATAGAGGCATGGGAAGTGG AGGAGGACACAGGACTA/GIGCCCAACCACTTCTCTCCGGTCTCCCAAGTACT
stSG2022 a	86 T C ---	---	TGCTTGAGGTTTCAATCTGAGATATCTATGGCAAGTTTATAAAAAGTACATTGATCAAGGTACAA TTTTTAACATTAAATACAT/CJAATCCATAATCTCATCTATTTAACATTAACACAGGCCCTTTGTTGT TGTTATTTTCTCCCTACAATAATTCCTGACTCTGTAGGACAGTGGGCCTCAGTTGGGGGTTGAC T
stSG2076	104 C G ---	---	AAACGTTGTCCCAAAATGTGTTCAAGTTTCACAAGTATAAAATAAGACTTCTGAAAAAAGTTTACA ATTAGTTATAAACACACTTAAGAATAATTTTGACATT[C/G]ACATCACAGTGGGCATTTT
stSG2108 c	71 A G ---	---	TTGAGCAACAATGATTCGCGAATTGGCAGCTCCAACCAAAAAATGATTGAGGGGCTCCACAGAG GAGC[A/G]TAAGGGGAAGACTTTTATAGGACAACTGTAGAAGTAAAGCAAGCAGCGTTTGATTG GTTACAGTTACACAGTTGCTTATTTGGTCTATCTTATTGGGAAAGTCTGTAGTTATGTAATTGTAAG TTTGTGGGCTGTGCTGA
stSG2108 a	49 T C ---	---	TTGAGCAACAATGATTCGCGAATTGGCAGCTCCAACCAAAAAATGATT/CJGAGGGGCTCCACAG AGAGAGCATAGGGGAAGACTTTTATAGGACAACTGTAGAAGTAAAGCAAGCAGCGTTTGATTG GTTACAGTTACACAGTTGCTTATTTGGTCTATCTTATTGGGAAAGTCTGTAGTTATGTAATTGTAAG TTTGTGGGCTGTGCTGA
stSG2141 b	173 A G ---	---	TTATCCAGGGGACAAGCTGCACAAAGGAATGTTCTCTATTATTTAAACAAATGACTGCGGTAC TGAATCTGACTGTGTGAATAATCTCAGAATGGCAGCACTGGCATGGCGATGGTCAGGTGGGT GCAGTCCCTGTGGTCTCTATTGCTTGAAGAGAGAGAAAG[A/G]AAGTCCCTATTATATATTAAGGC AGTTTCAGAGCACTGGCATTCTGTGTGCTG
stSG2141 a	113 C T ---	---	TTATCCAGGGGACAAGCTGCACAAAGGAATGTTCTCTATTATTTAAACAAATGACTGCGGTAC TGAATCTGACTGTGTGAATAATCTCAGAATGGCAGCACTGGC/CJATGGCGATGGTCAGGTG GGTGCAGTCCCTGTGGTCTCTATTGCTTGAAGAGAGAGAAAGTCCCTATTATATATTAAGGC AGTTTCAGAGCACTGGCATTCTGTGTGCTG

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stSG2148	50 A G ---	---	TGGAAACAACCGGCTATAGTCTGAGTCATATTTTAGACCGTGATTTCTA/GJAAAGAAACAATAA ATGTGGATTAGAAAGGAAACATCCATTACTGTATTTTCGATACTTGTGATGTTCCACAGACGAGCTC ATCAC
stSG2175	68 C T ---	---	CTCAATGAGGACTCCATCAGCCAAAGCGGTTATATGGCAGATGAGCTGTACAAATCTGTTGTGCT [C/T]GCCCGGTGACTCAGCTAATGCTACCGGGTTGGAGCGCACACCGAGCCACCTTTTCCAT ACCTGGGCAGAGGGAAGGAGTGGAAAGACCA
stSG2189	41 C T ---	---	CAAGTGGTGAAGCTGGGATTTGAGCCTGATATTCACACTA/C/TCTACATTCCCTCCAGTATAATA GGAACTCATCGCTAACTTTGAGCACTTAGTGTCTGAGTACTTCGTATAGGTATCTCAATCCTACTC CAGCTTGGCAAC
stSG2200	49 T C ---	---	TGTTGATGACCATAGAGGATGCAAAAGCTCCGGGTGTTCTGTATGATG/T/CJTTTATATTTATGTAT AATGTCCTACCTGATGATACCCCAACATATTACTAGCCTTATAGATGAGGATGGATGGCAGCTTGGCTG GTCAAT
stSG2243	85 G T ---	---	CATTTCTGCTCTGCTTCCCAGTACTACCCCGTCCAGCAACTGCCTCTCGTATAAAATAAGTATCAA GATGGTCAGTAGAAAAG/G/TJAGAGCATCTCCTCAGCCCTGGAAGACAGTGTGGGAGCTTCAGCT
stSG2257	65 A C ---	---	TCAGTGATTGTAGGAGCTGGCTAAGTCATGCTAAACTCTGTGAGGCAGGCTATCAGAAGGGCAG/A/ C/TGTGAGGAACCTCGCAAGCACTGGGCTGCTGCTCAGGCAGAAATTTCTTCCT
stSG2306	67 A G ---	---	GTCATCAGCGTAGAGGTCACTGGTATAAACAACAGTAGCTATATGATATTTGGGAACATATTTTACA [A/G]TATGCTCCCATTTGGGTTTCCAAACTGATAACAACCATGAGGTGAACACTTTCACCTGTTTCACAG TTCCTCCAGAGA
stSG2334	70 T G ---	---	GAAACTACCCACAGCATCATGTTAAAGAAGAGAGATGAAAGAAAAAATCCCCGCAAAAAACA AAAAA/T/GJTGAGTGAGGGGGCTGTGGAGGGGTGAATG
stSG2339	63 T C ---	---	AGAGCAGAATGGTGAATCAACAAGACCTCAAAATTTGCTTGACTGCAGAAGTAACGTGTAC[T/C] GTTCTCAGAGTCACCATACGGTGACTGTCTATTCIGGCTGTGCTTCCATTATCA
stSG2465	76 C T ---	---	CAAGACTAAGAAGCCGCAACCGAGTGGTCCCACTCAAAAAGAGATTTCTGATTTCTACCTCAAAATG CAGAAACCA/C/TJACAGATTAAAGAGAAACACACACACACTTTGAGAAACTCGCCCTTCCTC ATCTCAAAGTGGGGTATGCA
stSG2549	140 T C ---	---	TTGCAGGCTTGATTCCACAATAACAAAGTCATGTATAGAGAAATGTGAAATGATACTTGAAACCAA GATATATAAATATTGAAGTCATTTATGCCTTTGTAGTACTGGGTTAAATATGCAAGCAGCTAAAG GAATAT/T/CJTACACCCACCCCTTTTAACT
stSG2577	123 T G ---	---	AATTGCCAAATGGAAAATCCCAGAGGATTTTAGACCAACTTTGCCCTGTGCAATCCCAGTTTGGT CCCAATATAGGCCTCTGCAAGAAGAGATCAATGCCGAACCGAAGTGTGAAAGCA/T/GJGAACAATC CCGGCCAGATTAAATTAT

stSG2577	121	C T ---				AATTGCCAAATGGAAATCCAGAGGATTTTAGACCAACTTTGCCCTGTTGCATTCACAGTTTGGT CCCAATATAGGCCTTCTGCAAGAAGAGATCAATGCCGAACCGAACTGTGAAAG[C/T]ATGAACAATC CCGGCCAGATTAAATTAT
a					---	
stSG2700	58	G A ---				ATCTCTCGACTGCTTTAGTGGGAAAGGAATCAATTATTTATGAACGTGTCGGGCCCC[G/A]AGTCAC TCAGCGTTTCGGGAAATAAACCACTGGTCCAGAGCAGAGGAAGGCTACTTGAGCCGGACACCA
stSG2724					---	
b	101	T G ---				AAACAAGCTTTGTCAATTTCCACTACATTTTGTGTGCTTTTATATTAATTTGCAATGTCTATAAT TTAATACTTATATCCAAATTGCTTGCATAATCA[T/G]TTTTTTTAACTCTGGGGTGTGAAAGAAC
stSG2776					---	
a	65	G A ---				GTGGCCGATCTTTACTTTCCAGAAAAGGCGGTAAATAAAAACCTGTAGAAAGTCTCGAATATGC[G/ A]TATTGGCCCTTTGGAGTTAGGCCAGGAACCTCAACAAGGGACACTGCTGGCCAACCCACAAAA ATATCCACTAATCCCGAATATAGTAACCCCTGCTTGTCGGAATG
stSG2791					---	
b	109	G T ---				AAGGAAAGGTGGAGGGAAGAAGGGAAGAAATFACAATGGTTAGAAAAGAGCAACTAAAGATTATTC TATTACTTCTGAACGGTAAACTAGCAATTTTAAATAATAT[G/T]GGGTCCACTTAAATCTATTA AAGCAGAAAGTGTAAAGCTATCTCCATTAGTGAAGAGATGAAGTGACAAAAACCAATCAG
stSG2791					---	
a	100	A G ---				AAGGAAAGGTGGAGGGAAGAAGGGAAGAAATFACAATGGTTAGAAAAGAGCAACTAAAGATTATTC TATTACTTCTGAACGGTAAACTAGCAATTTTAAATAATAT[G/T]GGGTCCACTTAAATCTATTA AAGCAGAAAGTGTAAAGCTATCTCCATTAGTGAAGAGATGAAGTGACAAAAACCAATCAG

						CCGCAATTTTCAACACACATCTATGAAAACTAAGGTGGATCATGTACAAACACAAAAACAAGC TCCCTCCCTCCAAACAAA[C/T]GAACAAAAATAAGAAAAGAAAACCCATGAAATGCCCAGGTTTA ATTTTTTTCC
stSG2826	85	C T ---				ATGGGTGCATTGTAAAAGGCAATTAATACTTTTTCAGGCAGGGGCTGGCAAAATTTAATGAGCTGA TGTGTCCCAAGGGAGACGGCC[G/A]GGCTCACACATCCCATCAAATACTCCTCCCAT
stSG2850	88	G A ---				ATACTACGGGGGCTGAAGGGCAATGTGAAGAGTGAAGTCAAGTCCCTGGCATTTTCTGTGGTGCAGC AAA[T/C]GCCCCTTATTTAAATGATCCAGACATCTGGGCAGCATAGCT
stSG3031	71	T C ---				GTCCCAACTCCTCTCCTCTTAGAGAAAAAACTGTGATTACCTCAACTTGAATATGAAACTGTGATTG AAAAAAGTCAAAAC[G/A]TGAAGAAGCATCAAGCCAAAAAGGCAAACTGGCTGAGGC
stSG3058	81	G A ---				CAGCATCTCCAGAACATCTTAGAACTGAACCATCTTGTCACATTTGAAAAACAAGCCAAAGTTTC CAAATCCAAAATAATAATGAACGTGC[T/G]GATAAACATTCTTATGTTCCAGCCCCCTACTTT AGTT
stSG3092	94	T G ---				AAGAAGTACTTTGGTAGCTATTTAAATAAGAGGGGGTGGGAATGAATGTGAGATACGAGCACCTG CATCTTTTAGTCAATTGTGAGTGGAGTC[A/G]GTGGGGTGCTAAGTGTCTGAACTGAAGTAG
stSG3230	95	A G ---				ACATCTCATACCCAGTAAGATGCAAGAAAGGAATATCTGAGAGCAAGCAGCCCTGCTCCAGGGGCCCC CAGGTATGTGAGAGGCCAGTGGGGGTGGCCACTTGGTGTTCACACCCCCCTGCCATCCAGTCTG GCCCCAGTACCTACCTGGGAGGTT[G/C]TGACTTGGCTTAAGTACTTCATGCTTTAT
stSG3245	160	G C ---				

stSG3265	42 T C ---			AGTGAAATGAGTTACTAAATGTAGCATTTATTTATAAGGAA[T/C]GCATTGTGAATAGTTTCTCAG TTTTCAATTATGGAAGATGATGATTTTACGCCACATTCAGTGTATGTTTCTAAATAACACAATCGAC AGGACTGTCTGTTTCAGTACAATGGAGGACAGCTTTTTCAGGGCAATGGGATTTCTTGATAATGCTAA ATCTGTCTTGTGAGCTGAATTTCTGGGCTTTATGTGGCAGTGTGGTAAAAA
stSG3269 b	141 C T ---			TGTACTTACTGTGTCATCCTATCCATTCCCTTCCCTGAGCCTGGACTGCTCTTCCAAAGGAGACTAGG AGTGAAGGGAGGAGTCTCCCAAAGTTACCCCTTTAAGCTTGATAATTAGCTCCATAGCCATGCTAAA GCATGA[C/T]GTAGATCCCAAGTCCCTGACACATTTTCTTCTAAGAAACT
stSG3269 a	24 A G ---			TGTACTTACTGTGTCATCCTATCC[A/G]TCCCTTCCCTGAGCCTGGACTGCTCTTCCAAAGGAGACT AGGAGTGAAGGGAGGAGTCTCCCAAAGTTACCCCTTTAAGCTTGATAATTAGCTCCATAGCCATGCT AAAGCATGACTGTAGATCCCAAGTCCCTGACACATTTTCTTCTAAGAAACT
stSG3284	130 C T ---			TAACTCAAGAACTTTTCAGTTACAGGAAGATTTATCTAATATTAAAAATGACTAAATTACAAAAAGC ATAAAATGTTTGAAGCCATTTTAAAGTTGTTTGAATCCATA TTAGCACTCAGACTTCCCCA[C/T] TCCCTAACTTTTGTAAATGCTGTAAATGGGACATTTGTGTTTGATCTACCC
stSG3292	99 A T ---			GTCTCAAGTGAATCTGTAATACATTTTAAAGTCTGACTTCAATCGGTACATGAGGCTTAGACATA CACATCATTGGACAAGTGACTTAAATATCTAA[A/T]TACAAAATCAAAATAGCATTTTCTTAACCTCAA
stSG3323	26 C A ---			TAAATGTCATATCTTTAGCTCTCACT[C/A]CCAGTGTATCCATTTTCCCCAGCCGTAGAGCTTTTCTG TTTCTGTAGATTTGCCCTGCTCGACATTTGATATAAATGGAGTTGCTGTATCATGTTTCGACTTCTCTC ACCTAGCATGATGTTTCAAGACACATCCATGCTGTAGCATGCGTCAGTGTTCATTCTTTTAA
stSG3369	69 C T ---			GATCCCCAGTATTTTCTAAATTGAACCTGTTTGTGGAAATAAAAAATCTGAGGACCACCTCAGAG GG[C/T]ATAAGGGAACCTCTTTGTCTTAGTTTCAAGGACTTTTCT
stSG3398	125 G T ---			CAAGACTGTAAGAACGTAGGCCCTTGTGAGAGTGAAGGAAGGATGCTCGAACTTGCCAGGACTCAGG CTTCAGCTTCACAATCCCGAGGAAAGGAATGACATTTCCAAAACCTGTCAACCTTTGTAGC[G/T]CTGGGT CAAAAGTCTAAAGAGGACAAATAAATAGAGACT
stSG3416 a	43 A G ---			TCTTACTCTGTTAACTCAGTCTGGAGTAAAGGATGCAATCACG[A/G]CTCACTGTAGCCTGGACCTCC TGGGTTCAAGTGATCCTTCCACCTCAGCCAACTGAGTAGCTGGCCTGCAGGACAAGTCACCATGCCTA CCTAAGTTTTGTAGAGACAG
stSG3424	173 T A ---			GTAAGACAAGGTTTTGCTATGTTGACCAGGCTGGTCTTGAACCTCCTTGGCTTCAAGCGACCGTACCA CCTTGGCCCTCCCAAGTTGCTGATATTACAGGTGTGAGCCACTGCCCGCCGACTTTTAAACTGAAT GTTGAAAATCATCTGCTCTTTTGTCTGGGTAACTGAT[A/C]AAGTTGCTTAACTTTGTGAAACCCAG TTTCCCTTATCTGTAAACAAAATGGACAAACAGAACTTTTTCCTTTCTCTC
stSG3436	88 T A ---			GTTTCATGTTAAAGATTAGGAAAGCTGTGGATGTGAGGGGTGAGGTGATGTGATGGAGGCCCTCACAGA ATGAGTGGCAGAGAGGGCCCC[T/A]GAAATAGCTTACTCTGTTTCTCTATC

stSG3463	103	C T	---			GATACAGAAGATAGTGGTATGGATGGATAGTATGAAGGACAAATAATACAAATATATTTTATTTG AAATAAACAAAAATGCATACACAGCTCAATGGGTAC[C/T]TGGAAACAAACTTGGCTTGAATAATTA CTGA
stSG3491	71	G A	---			CAAGATACCTTCATTGTCTAAGTAGTGCAGTGTGGCAATATTTCTCACGAACAAGGACGATTTG AAGA[G/A]GTGGAAATTACTGTGAAGGAGTACTTTACCTCCAAATAGCCTGCAATTTAGCAGTCTGA ACAATCTTCTAATCTTTACTGGCACCTGTGGATTCTATTAACTCAITTTATACTATTTTCTGTGATG ACAGAAAATAAGTTAAC
stSG3523	33	C T	---			TAGCCATCTTACTCTAGTTCCTTTTGGGTTTTA[C/T]GCATATATGTGTGTACAAAACACACACACACC CCTAATTCCTCAAAATGCTCTGGCATAAGTTTTATCTCTTACTGGTCTC
stSG3536	213	A G	---			AGTACAAACACAGATTTAAAGAGCTCAGCAGTATTGACACGCTGGAAATTAATGGAGACATCCACTT ACTGGAAGTAAGGAGCTGGTAGCCTACCTACACAGCTGTACAAAACCAAAATACAGATGGCTTC TGTGATACTGGCCTTGTGAACGGCATCTCACTGTCAITTTTATTTTATAATGTTAAATGAGCTTG TGCACCATTAG[G/T]CCTGCTGGGTGTTCTCAGTCTTGCCATGAAGTATG
stSG3583	112	G A	---			GAAAAAGCTTAACATACGATCCATGTGCAAAACCCCAAAACAGGATCTACGAACCTCTGGCATGATCCA CATCGCTACACATACCATGCTGGAAGTGCACATCCACACAGGCAC[G/A]TAACATACACAGTACTGT CTAGTTATCAACACCTAC
stSG3586	60	G C	---			CCTAGTAACATAGTGAGACCTCGTCTCTACTATAAAATTTAAAAATCAGGTGTGGTG[G/C]JACG CCTGTAGTCCCTACTTGGGAGGCTGAAGTAGGAGGACTGCTTGAACCCAGGAGATGGAGGCTACAGT GAGTTATGATGGGCCATTGCATCCAGCTTGAGACTGTTTCAAAAA
stSG3589	101	T C	---			ATATAGTCTGGTAGCAATTATAAATCCTTTAAAAAGCAATCTGGCCATATCAAGGCAAAAAAAGT GTATATACCACTTGGCACAAAAACCCCAATGA[T/C]CCTATTTCCAAGAATGTATCCAGATGAAA GTATCCAACAACAAAAAGCTATATACAC
stSG3590	70	A T	---			GAGAGATGAGCTATTTATTTCTTTTACTTAATGAAGATGTAAGAAATGATCTTCTGTCTAAAAAAA AAA[A/T]TTTCTCTGATGTCTCTTGACCCGTGTAGGAAACACATTCAGTTTCTACACT
stSG3619	78	A C	---			CAGTGAGACTTCTCATTTTATAGCAATACATTTTGCAGCTTAAATTTCTTGAATTCATATACGCT TCTGTCAATTT[A/C]AACAAACTTCCAGAGAAAACTGGGCTCTATATATTTAAG
stSG3644	40	T C	---			ACATATGTAACCTGCCATTAGTACCATATTTAGGATGAGAT[C/J]GGATTGAGAGGCGATGAACCAAGG ATGCGTAATAATCATTATGAATAATAAGTTATCTGGGAAACGGCCATTTGTCCAACATTTACTAA GTGCTACTA
stSG3646	70	G A	---			CTCATAATTAGATTGAGATTGTGCATTTTGGCAAGAATATATGATGATAACAATAATATGTCTTACT GGT[G/A]ATATTAACCTTTGATACTTGGTTAAGATGGTGCTGCTAAATTTCTCCATTGTAGAGTCATT CTTCTCTTTGTA

stSG3646 b	55 A G ---	---	CTCATAATTAGATTGAGATTGTGCATTTTGGCAAGAATATATGATATAACAATA[A/G]TATGTCTT ACTGGTGATATTAACTTTGATACTTGGTTAAGATGGTGTCTGCTAAATTTCTCCATTGTAGAGTCATT CTTCCTTTTGTGA
stSG3646 a	43 A T ---	---	CTCATAATTAGATTGAGATTGTGCATTTTGGCAAGAATATATG[A/T]TGATAACAATAATATGTCTT ACTGGTGATATTAACTTTGATACTTGGTTAAGATGGTGTCTGCTAAATTTCTCCATTGTAGAGTCATT CTTCCTTTTGTGA
stSG3693 b	85 A C ---	---	ATTGTTTCCCTGAACATTCCTGGTGTCTCCCTCTGAAAGCCGATGACCATCCAACCTGGACTCACCT GAAATATCCTACGAGGC[A/C]TCGCCCTCCGAGACTGACGATTATTAAACCACCCACACGGAAAAAGG
stSG3693 a	30 C T ---	---	ATTGTTTCCCTGAACATTCCTGGTGTCTCC[C/T]TCTGAAAGCCGATGACCATCCAACCTGGACTCA CCTGAAATATCCTACGAGGCATCGCCCTCCGAGACTGACGATTATTAAACCACCCACACGGAAAAAGG
stSG3698 b	145 G A ---	---	TCTTGCCCTTTGTGTACCCCTAGAGAGATGGCACCCCAATCCCCAGGTTGCTCTCTGACTTCCACCAT TCACTGACTTTTATTGCCAGAGGAGCTCCAGGAATCCACAGTTCTGGAAGAGAGGGGCTCTAAGTCT TTATTGGG[G/A]AGAATACCCACCCACCTTCCCTCACTGCAGA
stSG3698 a	51 C G ---	---	TCTTGCCCTTTGTGTACCCCTAGAGAGATGGCACCCCAATCCCCAGGTTG[C/G]TCTCTGACTTCCA CCATTCACTGACTTTTATTGCCAGAGGAGCTCCAGGAATCCACAGTTCTGGAAGAGAGGGGCTCTA AGTCTTTATTGGGGAGAAATACCCACCCACCTTCCCTCACTGCAGA
stSG3724	107 C T ---	---	ACCAGCCTCATGTGCAGAGGGTCTCCTGCTGGATCCCCAACTGGAGGCATCCCTGGGCCTAGACTTCT GTCTCCCTCACTTCTAAATGAGTGCTCAGTGATGTGAAG[C/T]ACACAGGAGTCCCTCAGGGGCAAAA GTGGCTATGCTGGTGCT
stSG3725	104 G A ---	---	GCCAAACAANAAGATCTTTGGAGTTTACTGACGGCAGCAGTTTAATAGCACAGTCAACAGCATTTAA ATCAAATATATTATTACCAGCCAAACAGCAACAGCCCC[G/A]AGCAGGAATCGGCACATAGTCATAA ATAACATCAGGGGTAAATAACGGCACATTTA
stSG3751	128 G A ---	---	CGGAAGAAAGAAACACAAATCCACAGGAACAATCTATGTTTCATACCTTTTAGAAAGATGATTTTG AGGGCTTCAGTATTTAAAGGGGAAAGCAGGCTGGAGGGGAAAGAGAGAGGATATGGTCCC[G/A]TT GCTGACTCCATGTGTGCAAGAG
stSG3787	49 T A ---	---	TTCTGTGCAAAAGAATCCACATCATTGTTTGGTAGCAGAGGATCTCTTA[T/A]AAAGTTCCCTAAGA CACTGAGGGCATAAAACCAACAAAAATAAATAAGGAGTGATAGGCTAAAGCAGTATCTTCCCTCT
stSG3880 b	115 G C ---	---	GACAAGGGGAAGAGATGCCACAGACACAGGGCTGGGGCAGCTGGGGTCCCTGAGTGCCAGGGGC CACCACACGTCCTGTGGTCAAGGCCCTCCTCTGGGGAGCAGGTC[T/G/C]GGCAGGAGGATGCAG GGCTGGAGGGGACCCACCTCGGGGACCCAAAAGGAGTCCATTCTGCCCT

stSG3880 a	36 G C ---	---	GACAAGAGGAAGAGATGCGCCAGAGACCAGGGCTG/C/GCGCAGCTGGGGTCCCTGAGTGCCAGG CGCCACCACACGTCCTGTGGGTCAAGGCCCTCTCTGGGAGCAGGTCTAGGCACGGAGGATGCAG GGCTGGAGGGGACCCACCTCGGGGACCCAAAGGAGTCCATTCTTGCCCT
stSG3895	44 A G ---	---	AATCAGCCATTGTACACATTGCAGCTATGTATTGTTAGTGTG/G/G/TTTTTTTTCCATTAACTAA TACATGCCCTCATAGATATATTCAAATTAGTGTATCACCATGGGAACAAGATGCTGATTGTCGCAACTG AAAAAT
stSG3902	104 T C ---	---	TCGTGTGAGACTGGAGAGACCAGGTACCAAGCAGCTCTGGTGGGAACCTGGCTTCTGTATAACA TCATCTATTTACCTAAATGTGAACCTGCTTTCTTTCT/C/CTCAGCTCAATAGCTTAACATCTAATTC ATGTTTGCTCCCTTTGCTGGACAAT
stSG3935	50 G A ---	---	GGGTGTCTGACGGACAGGCACACCCAGCAGTTTCAACAAGCAATTTGTCC/G/A/CTAGTGTGCAGGC TCCTCCCCAGTTTCCACAGGCTGAGTACTATGGGGTCACAACCTTCTCTGGACGT
stSG40	25 A G ---	---	GAGGAAGAGGTTGAAGAAGTGTCTGA/G/G/AAATATATTTAAAGATTTCTTGGGGAGAAATCTCGTGC CCAAACCTGGTGATGGATCCCTTACTATTTAGAAATAAGGAACAATAAACCCCTTGTGTATGTATCA CCCCA
stSG4009	32 A G ---	---	GTGTGGGCTGTCTGATGATGAATGGCGGCTC/G/G/TACTCTTTACGGTCTTACACTTTTATGCTCCT ATGAATCTCTGATGGCTTTAAGGGCTGAACCATATCTGAAGGTTTCCACACTGCTTACA
stSG4033	123 T C ---	---	AGAAGCCTTGGGGACAATGGCAGTGCCTTTCTGAGTAAGACATGAATGCCATCTGGAGGATCCATT TGAAACTACAGTGCAGTAACCAAGAACCTAATGTTTTCAAGCATAAAGGTACTTTT/C/CTGTGAAC AGGTGGGCAACAC
stSG4038 a	29 G A ---	---	GCTGAGAGCAGGTGTACAGCCACGCCTGTG/A/CGCAGGCCCACTCTGTGCAATAAACATGTTCTGCC CATGTTCTCAGTCAGGAGGTTCAAGGCTCCCGGAGAGCACTGAGGGTTCATCACT
stSG406	53 T C ---	---	ACTGTGGTTCAACAGTATTGCGTTGTGACACTAGGAAAGCTAAACGAACAATA/C/G/GTTTTAGTT TTGCTGAAGACTGGCCTTATTAATGGACAGCTTTCCTAACAGAGATTATTAACITTTATCAGGGTGT AACATCTGTTTCAGGAACATGGCA
stSG4095 b	55 G T ---	---	ATCTGGGCTGAATTAGTCAAGCAGGTCAGATACTATTGTCTGCTAGATGTATTAG/G/T/ATAAAAA GTTTGCTTCTGTAATACTTTTAAAGCTTGCTTATCTCATCTGTAAACCTATGTGCTTGAGAATCAAG CCTTTGGACTAACCCAGGGCATTGCCCTTCATCCTGG
stSG4095 a	27 A C ---	---	ATCTGGGCTGAATTAGTCAAGCAGGTC/A/C/GATACIATTTGTCTGCTAGATGTATTAGGATAAAAA GTTTGCTTCTGTAATACTTTTAAAGCTTGCTTATCTCATCTGTAAACCTATGTGCTTGAGAATCAAG CCTTTGGACTAACCCAGGGCATTGCCCTTCATCCTGG
stSG4120	65 G A ---	---	TGCATGTTCCACATCTTTCATAACAGCAAAATGTATAATAAACTTACGTACTTATGGATAATCAC/G/ A/CTTTTCCCCTCAGAGAGGCCCCACAGTTAAACACGTTCCAGCACACCAATTATCCACCGAGCT

stSG4128	54 A G ---	---	CTTGGCAGATAAGGACTCGTTTGCAGATATGACTTTCCTTTGTGTACATTTCT[A/G]TATATTATTT TACTTCTTCTGAAATGCCACATAATTTGCAATAAATGATTCACTCCTTAGCTCCAAAAGCAAGTCC TTTATCAAAATGCAATGTTCCAGAGGG
stSG4209 b	128 G A ---	---	CACGAAACAGATGCAGCTACACAGTGTGTAGGACCGAGGCTCACAACATCCACATGGCACAAAGC AGGCCGGCCACTCCAGGCAACGAAAGCCACCCCGAACCTTGAGAGGCCGCACTCCCTC[G/A]GC AGGGGACCAACGAGGCGACAGGTGCTTTGATGCCTCCGAAGAGCTGAGCTCCATTCCA
stSG4209 a	65 G A ---	---	CACGAAACAGATGCAGCTACACAGTGTGTAGGACCGAGGCTCACAACATCCACATGGCACAA[G /A]AGGGCCGGCCACTCCAGGCAACGAAACGCCACCCCGAACCTTGAGAGGCCGCACTCCCTCGGC AGGGGACCAACGAGGCGACAGGTGCTTTGATGCCTCCGAAGAGCTGAGCTCCATTCCA
stSG4254 b	31 G A ---	---	CATTACCCAGAACGCCATGGAGGACCAAGAGC[G/A]CCACGGCCGGGACTCCCGGATGGCTGGGGG GCTATGGCTCTGACAAAGGATGAGCGAGGGCGGGGCTGCCTCCTCCCCCAGGGGCGAGACGTGAC TGGGGGACCATGGCCGAAGAGAGGATGACCGGTCA TG
stSG4301	81 T G ---	---	TGCAACAGCTCTGAGAGGAAATCCTTGGCAGATCAAAAGAGAGGGTAGTGGCTCCACACTTTCCAT TTAAGCAAAATAAAT[TT/G]AGCTTCTGAGTAGTGTTCACAGTTTACCCCAACATTTTG
stSG4331 b	71 T G ---	---	CTCACAAGGCCAACACACAGAAAAGATACAAATACATTATCCAGCTAATAATTTAGTTTTATGACAC AGAG[TT/G]TTTTCAAAACAAGTTTAAGTGTACCTGAAGAGCATGTTAAAGTTTAAGTTATCACTT GGAGAGCAGATTCTTGGCTCGCCCTTGATTTCTGTTGAGGGGTGTCG
stSG4340	76 G A ---	---	TTTTGCAACAACATGGATGGACCTGGAGGCCATTAGTGAAGTAATGATACAGAAAGTCAAAAACC ACATGTTCTC[G/A]TAAGTGGGAGATAACAATGTGTACACCTGGACGTGGAGAGCAGAA
stSG4361 b	109 A C ---	---	TTCCCAACCATTGAGTGACAGAGCTCAGTCATGCGAAGTTCAGGTTTGCATGACTCAAAATTAGGCAC AAGTCTTGGAATTTCCATAAGGGATAAAGTGCATCTTTTGC[A/C]CCTTCACAAC TAGAAAACGACTC AGCGACTTTTCTGTGAGCAATGTCGAGG
stSG4361 a	24 T C ---	---	TTCCCAACCATTGAGTGACAGAGC[TT/C]CAGTCAATGCGAAGTTCAGGTTTGCATGACTCAAAATTAGG CACAAAGTCTTGGAATTTCCATAAGGGATAAAGTGCATCTTTTGCACCTTCACAAC TAGAAAACGACTC AGCGACTTTTCTGTGAGCAATGTCGAGG
stSG4376	73 A G ---	---	TTTCACTGCTACTGGTTTCGGTGTCTGAGTCTCAAACTCTGCTTTGCAAGTGTCTTCCAAAGGGGAG AACAG[A/G]CTGGAAGTCTGGCTCTGCAAGAAGCCATTCTTTCCAAAGCCATTCTTCTCAGCTGC
stSG4381	50 T C ---	---	GAAGGCCACAACACTCCATAGCCAGAGAAATGACAACATACGATTTTCTTT[C/T]CAGTCTTGTAGT ATCCACAGTAGTGTCTGTGTCATGTACAAAGTGTGTGTCAGAACACCCATTAAATTCATGCC
stSG4410	79 A G ---	---	ACCAATGGTTCTGCTATGTGCATCCGATATTTTTTGGCCGATCTGAAATACTGCAAGGGCTTAACCAT TCAAAACACCGC[A/G]TGACAACGAACCCAGTGGACTGTGAAACTCAGGCTGCAGGAGGGTGGCTTGT CAGCTGGGT

stSG443	65	C T ---	---	AGCAGATCAGTCAGCCACCTTGCTCTCTCTCTTTAGGGAGAGGCTAGGCAGTGAACACATCA[C/
stSG4430				T]GTATGCAATGAGAAATAACCAACTGGTAGATGGGGAGGGGAGGCAGGGAATAGGCAC
a	54	A G ---	---	AAATGGAATTCTATCTGGCTGTCTCTCTCAGGTC
stSG4448	99	G A ---	---	ATGCACATTAAATGAATGGCCTAACTACTGGGAACCTTTAGTAGTTCTATAAGGT[A/G]ATTAAACATA
				GGTAGATCCAGTTCCTATGACAGGCTGCTGAAGGAACAGATATGAGGCATCAAGAGGGCCATTTT
				CCTCCCTCCCTTCCCTTCCCTTCCAGTCTTTCCATACTGTTCCCTCCCTCCCTCCCTCCCTCCCTCCCT
				CGCCTAGCCCTGCCCTCTGGGTCACCTG[G]ATGGGTTAGGCCCCCAAAAAA
stSG4449	92	T C ---	---	ATTAGCCATTTCATCTTGCAACAATTGCTTTACTGTAACTAAGAGTACTGTACTGATGATGTTTACAAT
				TAACTTTGGACAACITAAAACCTTA[T/C]TAGTGACATTGCTGTCTAATAATCAATACTTTCATCATA
				GGCTGAACATAAATTATAAAGAGCAAAAGTTACCCCTCCC
stSG4467	42	C A ---	---	CAGACATGAGGGATGGCCCTGTCTCTCTGGGACAGAGCCCTCA[C/A]AGATGATGTCCATGTTTGTGT
				GAATGAAACTCAAAACACTCTTCAGTTTTTAGAGTCATTTTCTGGTATCGAGCGACACACCGAGGAG
				CACACCTGCTCCAAGGCTGCTGCCCTCTGCACACAGT
stSG4475	21	A C ---	---	ACATGTCAATTCCTGACCAGG[A/C]TATTAATAAGTTTATTTAGAAGAAATGAGTTGAAGTGAGCGA
				TTAAGAGACACAAACTGGACITTTTGTCTTTTACTGTAGCACCCAGGTTTCATG
stSG4477	32	A G ---	---	GTAACATTCCTGGGGTGGGGTGAGACAAACA[A/G]ATGAACCAATAATTAATTAACAATTATACATT
				TCAAGGAGACTTTTAACTAGGTTAATGTGAACCGCAGCCATCAATGGTTGTCAGGAAAAAGGGAGA
				TGAAGTCTTGCTCTGGGCAACGTTTGGCCTCAATTGCAGTCAGACTTGGC
				TGAACTCAGAGCTGGTGGGAGCTGCAGCGAGGGGAGGCTGGGGCGCCAGATGAGCGCGCGGGGA
stSG4531	79	C T ---	---	CAGCAGGCGTCG[C/T]GCCACGTCCTGGCGTTGGTAGAAGAGGACATAGGCTGCCCTTGGACTCGATCT
stSG4550				GATTCTCATTGACAGGGGAGACGCTGTTGTCATCAA
b	86	G A ---	---	TGCATTAAAGGAATGATACGGCATAATTTGGGGGACAGAGAACAGGCTTGATGAGGACAGAGTCTATTT
stSG4550				AAAAGAGACAGTGGGCACC[G/A]CAATTGGAGGGGAAGCGGGGCAGGGTTTTAGAGAAC
a	85	C G ---	---	TGCATTAAAGGAATGATACGGCATAATTTGGGGGACAGAGAACAGGCTTGATGAGGACAGAGTCTATTT
				AAAAGAGACAGTGGGCAC[C/G]GCAATTGGAGGGGAAGCGGGGCAGGGTTTTAGAGAAC
stSG4590	47	A G ---	---	AATCAGGCACAAGCTCGGGAGAGAAGCCAAACAAAGCTCTTCTGCAC[A/G]ATGGGAGGGAGACAC
				CATTGAAAAGGCATCGTTCCTTCTTCATGCAAGCGAGGCGCTGGCTCCACAGGCATGGTCTCCTTG
				AATCTGTATCACCCAGCGCTGG[T/C]CAATGTACTAGTAGCTTCCACAGGGATTTTTTATACTATTC
				CTATAAGGTTTTATCATGAATAAAAAAGCTCACAACCTCTTTTCAGCCATTGCAGATTCACATTTATCT
stSG4623	22	T C ---	---	TAAATTCCTGTCAAGATGCTCTGGAG
				TAAAAAAAACAACCCCCCAAAAAACACCCAGAAGTTTTTGAGTTTTTATGTTTTTTCAGATTTAAAG
stSG4843	102	A C ---	---	GTATTTCTTTCTAGCTTCTAAATTTTGAGTCAT[A/C]ATCAGAAAGTCTTCCCTACTCTCAAGGTGA
				GAAAGGA

stSG4850	a	38	C T ---		GGAATCTAAACTGGGAATGCCGAGGAGGAAGGGGCTC[Γ]GTGCACTTGCAGGCCACGTCAAGAG AGCCAGCGGTGCTGTGCGGGAGGTTTCCAAGGTGCTCCGTGAAGAGCATGGGCAAGTTGTCTGACAC TTGGTGGAATTCTGGGTCCC
stSG4879		86	A G ---		AACTCTGAAGGGGTGAOCTCAACCCAGCCCTTGTTTCTGTGAGGTCTGCTTTTGCAAGAATGGCCTG CCCCCTGGGACTGGAGCAG[A/G]CTTGGGTGAGCTTAGGTGGAGGGTGGTGGAGGGGCATAGAAAT AAACCTTCC
stSG4885		104	G A ---		ACTGAGCTGGCTGCTTGTGAGCCGGCTGAGCGGCTGAGCGGCTGGGACTGCGGCTGACCACCTCGCTCTTCAG AGACTCGCCCGCGGTGACCACGACTACGCTCTGCG[G/A]GTGGGAAAGCAGAAAGCAGGACC
stSG4896		112	C T ---		AAACAATCAAACCCAAATCCCAGCAGTCTATGTACAGGGCCACTCCCTGCCTCTCTGCCATAGAGA GGTTGGGGGCAGCTGAGGAGTGGTGGGGCTGGGCACCTTTTCT[Γ]CAGCCACAGGCCCTTGAGG AATTAATGACTG
stSG4932		22	G A ---		ACAGTCCGATGGTTACACAA[T/G/A]TTGTAATGTATTTAATCCCACCTACGAAATGATTAATAATGA TAAATCTTATGTTTATTTATCATCACTACCAAAGGCTGTGGGTGCAGGGGTGCTGTTTTCTGGTCT
stSG4950		24	A G ---		TCA TGACTCCAGGAAAAGGTCTT[A/G]TCTTAGCTTCCTCTCCTCCCTACTTTCTCTACATGGTCAGC ACTGTAATGTAGCTAAGATATAGTAAGGCATTGCTCCCTACCCCTACACTTCAAGG
stSG4957		136	G A ---		AGATACGGGCAAAACACTGGGATGGCTTCCTGACAACTTAAGAGGTCOCGAGTTATATTCTGGGTT GGGAAACACTGACCCAGCCCTTATCCTTCAAGGACTCTAGTCATTGGCAAGGAGGATTCATGAGCC CC[G/A]GTGACACAGATGGGGCCCTGCTCTATATTCAAC
stSG4961		91	C T ---		GAAGGTGCTCTGAGGAGGTGTAAGTCTCCCTGGCTGACAGGGGAAGGCTTAGCAGAGCTTTGTCTTAG AGGAGTAGATGAAAGGAAAGTA[G/C/T]AGAGAGGGCATTAGGCCAAGTCAGCAACACAGACAA
stSG4967		72	A G ---		ACTGGTGCTCTCAGCAGATTCAAGGGTCGTGAGGGCTGTTACCACAACTCAGTAGGAGTGCAA GGGCT[A/G]TACCCCCGGAGCTAGACAGCCTGGGTTTGAATCTCAACTTCTCCCTTTTCTGTGTGC AACCTTG
stSG4997		22	T C ---		CAAAGGAGTAGGAGCCCCAA[T/C]TTTTAATGGTTTCTCTCCCTCATGCTATTTGATCCAAAAA CTATATACAAATTTGTAGCAGTCTCTGTATAGTTATTACACATGTTTAGAAGGGAGGGAGGCAAGAA GGGATAGGGAGAATGGTGATCCAAAAAT
stSG6312		37	C T ---		ACAGGTTCTCACACTTTGAGCCTTTAGTGCAAAAACA[C/T]TATGCCATGCGGGAAATAAAAATGCTT ATCCAGTGGAGCGCTCCCTGATGCAITGAAATATTAGGATACTCAAGCAGAAGAC
stSG6345		107	G A ---		GCTCTGGTCAAGCAAAATCTCCAGGACAGAAGCAACAGGACAGTAACACACATGTATGACCCTTA CAAGTGCTTTAAGATTTTAAAAATGTGATGTTTTGTCCAC[G/A]JATAGTTCAGGCAATTAAGAATAT GCAACCCAGAGAAATTTCTGTGAAAACAATTTTGCTCTTTGGCCCTGGTGTGGACAGAAAGGGTGGCCAA ATGGATTGAGTGATGAGCAGACATG

stSG6362	88 G C ---	---	TGTGAAATGTACACTCAGGTCTAACAAATACCTATTATTTCTCTGGTTAAGAAAGTTTAGCAGGAGC CTCCAATGAGCACTGTATGTA[G/C]AGAAAGGAAGGAGGAGCAGGAGGAGGAACAGATCTGCACAGA AT
stSG8010	62 G T ---	---	CACATCTGTGTTTCTGGAGCAAAGGAAACACAGAAAGGCCAGGAGTTTGGGTGTGCACCTGG[G/T]T GTCTTTCAACTGGGTGGAACCAACTGAGTCCTTGAAGTCTCGCTCCTGAGGCTGCAGAAAGAATAGA TGGCTT
stSG8022	53 G A ---	---	AGTCCTGACTCCCTGTTCACTGACGTCATGTTGGTAGCCTGAAATGGACCAC[G/A]GTGGGAGTTAT TTACACCATGGAACTGGAAACTCTACAAATCAATGCGTTATTCTTTATTTTCAGAGGCGCAGGTT TATCAGCACACGCTGTATCTCC
stSG8032	67 G C ---	---	TGATTGTTAGGGATAAGTGGCATTGTGTTTACAAATTTACTTCCAAAGAAATTCAGAAAAATTTGTGTGTT G/CITGGGAGGCAGGGTAGCAAGATAAAAAGAGGAGGACAGCTGGGTTGGTAAAA
stSG8064 b	46 C A ---	---	AGCTGGCTCTTCTTCTGTGCGTGTTCGGGAGGCTTACAGTCCTCG[C/A]CCGTGGTCCCTGGGTGGCC TGCAGGACCAGGGGTGGGAAACAATGCCAGGGAGAAATTCCTGTACATCAAAACAGGGAACA
stSG8064 a	23 G C ---	---	AGCTGGCTCTTCTTCTGTGCGTGTTCGGGAGGCTTACAGTCCTCGCCGCTGGTCCCTGGGTGGCC TGCAGGACCAGGGGTGGGAAACAATGCCAGGGAGAAATTCCTGTACATCAAAACAGGGAACA
stSG8072	59 A G ---	---	CACCATCATCATCGAGTAGGCTGAGGAGCAGGAGGGGTGGTCTTGTCTTAGGG[A/G]TGGC AGAGGCAGAAGGAAGTCCGAGTATTAGTGGCCGCAATGCAGTTCAAGCCTGTCTTCAAAA
stSG8100	40 A G ---	---	ATACACCCACACACCCCACTCAACCTTGTATCAAAATTC[A/G]AAGTGTAACTAAAGTATAAGAAT ATCATGACTAGTTAAAGATAGCAATACCATAAGGTACAAGTTCAAGTATTAGTATAACAAGTAT CTGAGTAACAAATGTCCTTGGAAATGGG
stSG8102	138 T C ---	---	AAGGCTCCTTTGAAAGCATGGTTTATTGTTCATTTAACTTGTCTCAGCTATACTGAAGTATGATT GACAAATAAACTTGCATATATTGAGATGTACAGTGTGATGATACATGTATGTATACAATGTGAAA TGA[T/C]TGTATAATCAATAATCAATAATTGGTATTGGTTTAGGAAATGTGATGGT
stSG8105	110 A G ---	---	CAGTGGTTCTCAAACTCCAGCGTACACGAGGATGGTCTTGTCTTGTAAATACACAGATGACTAGGCC CACCTGCGGAGTTCCTGTTGGAGTCTAGGCCTGAGAAATTC[A/G]TTTCTAACAAAGTCCCAGGTGA CCCTGAGGCTCTTGGACTGGGAACATGCTTTGAG
stSG8130 b	96 T C ---	---	GTGTGTACATCATTTGGGAATGGAGGAAATAAATGACTGGATGGTGGCTGCTTTTAAAGTTCAAATT GACATTCAGACAAGCGGTGCTGAGCCTT[C/GTGCCTGTCTTCAAGATCTTACAGCACAGTTCC
stSG8130 a	36 C G ---	---	GTGTGTACATCATTTGGGAATGGAGGAAATAAATGA[C/G]TGGATGGTGGCTGCTTTTAAAGTTCA AATTGACATTCAGACAAGCGGTGCTGAGCCTGTGCTTCAAGATCTTACAGCACAGTTCC
stSG8145 b	124 T A ---	---	TTGTGGACTTCAAATCTTCTTCAGATTTTAAATGACATTATGCATGTACATATTTTAAAAATTT AGACACATTTAGAGAACACAATTTGTGAACACAAATCTAAGAAATGAATGAGATGT[T/A]CTGAAA TCTGATTCAACACTTATCTTAACTGACTTCTGTCAATCCTCTGTCTGTGAAGG

ESTD-AT3a	--	--	--	---	---	AGACCTCAGTTTCCTCTTCTGTAAAGGGGAAGTTTGTTCTTGGATCTCCATGGGCCACAGCCAGCACTG GTGCCCTGTGAGTCTGTATCAGGTAGAGGAGATGGACCAGGTGGAGAGGAATTTGAAAGGGCATTTG GAATTCAGAGCAAGAGACAGATATTAGAGCTGGGGAAATGTGG
ESTD-B3AR	--	--	--	---	---	GGCTGCCAGGGTTCCGTGGAGGCGGCCCTAGCCGGGGCCCTCTCTGGGCTGGGGTGTCTGGCCACC GTGGAGGCAACCTGCTGGTCACTGTGGCCATCGCCCGGACTCCGAGACTCCAGAGCATGACCAACGTT GTTCTGACTTCGCTGGCCGAGCCGACCTGGTGATGGGACTCTCTGGTGGTCCGCGCGGCCACCTTT GGGGC
ESTD-BA511	--	--	--	---	---	GGGCAACATAGTGAACCCCATCTCTACAAAAAATACAAAAATTAGCCAGGTGTGGTAGCAAGTGC CTGTAGTCCAGCTACTTGGGAGGCTGAAGTGGGAGGATCCCTTAAGCCTGGGAGGTGGAGGCTGCAG TGAGCCAAAGATGGTGCCACTGCA
ESTD-BCL2	--	--	--	---	---	AGCTGGATTATAACTOCTCTCTTCTCTGGGGCCGTGGGGTGGGAGCTGGGGCGAGAGGTGCCGTT GGCCCCGTTGCTTTTCTCTGGGAAGGATGGCGCACGCTGGGAGAACAGGGTACGACAAACCGGGAG ATAGTGATGAAGTACATCCATTATAAGCTGTGCGAGAGGGCTACGAGTGGGATCGGGGAGATGTGG GGCGCGCCCCGGGGGCGCCCCCGCACCGGGCATCTCTCTCTCCCA
ESTD-BCR	--	--	--	---	---	CAGTGGCTGAGTGGACGATGACATTCAGAAACCCATAGAGCCCCGGAGACTCATCTGCGCAAGA GACCAAAGAGGTCACTCTGTGTCCCGGAAGGGAGGCGAGGTGACAAGCTAACTCTGCTTCAAA ATCAACCATCCGGTGGACACTGTGTGGCTGCCATCTGCTCTGGCACA
ESTD-BRCA1a	--	--	--	---	---	AAGAAGAGAACTAGAAACAGTTAAAGTGTCTAATAATGCTGAAGACCCCCAAAGATCTCATGTTAA GTGGAGAAAGGGTTTTCAAACTGAAAGATCTGTAGAGAGTAGCAGTATTTCACTGGTACCTGGTAC TGATTATGGCACTCAGGAAAGTATCTGTTACTGGAAGTTAGCACTCTAGGGAAGGCCAAAAACAGAA CCAAATAAAAT
ESTD-BRCA1b	--	--	--	---	---	ACTAAATGTAGAAAAATCTGCTAGAGGAAAACTTTGAGGAACATTCAATGTCACCTGAAAGAGAA ATGGGAAATGAGAACATTCGAAGTACAGTGAGCACAATAGCCGTAATAACATTAGAGAAAAATGTT TTTAAAGAAAGCCAGCTCAAGCAATATTAAATGAAGTAGGTTCCAGTACTAATGAAGTGGGCTCCAGTA TTAATGAAA
ESTD-BRCA1c	--	--	--	---	---	ATGCATCTCAGGTTTGTCTGAGACACCTGATGACCTGTTAGATGATGGTGAATAAAGGAAGATAC TAGTTTTGCTGAAAAATGACATTAAAGGAAAGTTCTGCTGTTTTAGCAAAAGCGTCCAGAAAGGAGAG CTTAGCAGGAGTCTAGCCCTTTCACCCCATACACATTTGGCTCAGGGTTACCGAAGAGGGGCCAAGA AATTAGAGTCTCAGAAAGAGAACTTATCTAGTGAGGATGAAGAGCTTCCC
ESTD-C1R	--	--	--	---	---	ACACAGGTGCTGGCACTGGGGCTGGGGATCCTCTCCCTAATTTGCTCCGGGAAGCACATTTCATCAA CCCAGTCAGTTTGGGGACAGCCATGCACCTGAGCCTCTGGTAGCCTTTCAACCATGCATTCATCTAA GCTCTGCAAAAT
ESTD-C6	--	--	--	---	---	

ESTD- CTLA-4	--	--	---	---	ATGGCTGGCTTGGATTTCAGCGGCACAAGGCTCAGCTGAACCTGGCTACCAGGACCTGGCCCTGCAC TCTCCTGTTTTTTCTCTCTCATCCCTGCTCTGCAAGCAATGACAGCTGGCCAGCCTGCTGTGGT ACTGGCCAGCAGCGGAGGCATCGCCAGCTTTGTGTGTGATGTCATCTCCAGGCAAGCCAC
ESTD- CYP2D6	--	--	---	---	CAGGCCAGCGTGGTCAGGTGGTCAACATCCCGGCAGAGAACAGGTGAGCCACCATATGCACAGGT TCTCATCATTTGAAGCTGCTCTCAGGGTTCCCTTGGCCTGAGCAGGCCGAGAGCATACTCGG
ESTD- D11S1873	--	--	---	---	AAAAAACATTTTAAACACCTTTTCAATCATATACACCATAAAATTTCCATTTTTCACATAAGTCAGTT TGAGCTGAGTTTCCAAATTACTTGAATCTAAATGTCATAACTGATTAATGCAAGTTCAACAGACA ACTTTCCCAAGCATCTACGATCAGAAAGGTCAAAATATTACATATCTGGATTAAATATGCCCATAT CTGCATGTC
ESTD- D17S33	--	--	---	---	CATCCCAAGCCCATCCTTAGCCACTGGCATTTTTGCCGCTCTGACAGATACACTCAGGGCCGT CATGCTGCACACATCCAGGGGGCGCCCTACCCCTTTGTAGTCCATGGAAAGGCTCCTCTGGGGCGGTG GGTTGTGGCTATGTGGTCTTGTGTAGACGGGGCTTTGGTTTCAGTTGCACATTTGCCGTTATT GCAGATTGCTTTGCTTTCCACCTGAGCGAGCCTC
ESTD- D18S8	--	--	---	---	TTTGAGACCACCCCTGGCCAAACATGGCGAAATCACATCTCTACCAAAATACAAAATTAGCTGGGTGT GGTGGTACATGCCCTATCGTAATCCAGCTACATCGGAGGCTGAGGCAGGAGAAATTTGCTTGAACCCA GGAGGCAGAGCTTGCACTGAGCCAAAGATCACACCACTGCACCTACAGCCTGGGTGACACAGTGGAGA CTCTGCTCAA
ESTD- D3S11	--	--	---	---	AACGTATTAGAACCTGAAATACATAATTTTATCTGAAAAAGTCAGTTATTGGCTCATCACATTGG AATTTTGCATCATTAATAATCCAAATAAGTACACTGTAATAAAGAAATTTAACAGAAATATCATTTGT TTATTCAAACTATTTATCACTTATTTTATTGGTAAGCCATACATAAAATCTAAAGCATGTTTCTGAAAG TTTA
ESTD- D3S12	--	--	---	---	AGGTTCCACATTATGCTGATGTTTGTGATGTTTCCAGGAGCCTTGATGTCATTCTGTATCTCCTCAG GTATCCCACTTGAGAGCTACTTTTCAAAAACCTCTCTACAGCCGTTGTTGTTATTAAATCAAGTTGA ACATAAAGTA
ESTD- D3S2	--	--	---	---	GATCATGTGGCCCAAGTGGCAGAGCTACTTATACATGAOCCAGACCTGCTAGCAGAACATTTCTCTGC TGAGTCTTATTCAAAACTGACAGCCATTTATGCCACCTGAAATATGGTCAGGTTACAGCTGATTTCCC AGAAGTGAACATACCTGCTCTCTAGAGCCAGAGTCACTGGATGTTCTGTTTCGGTCTTCACGATGG CAGGTATGAAATATAATAATCTGCTCTTTATTGGAAGGATGCCGGTATGT
ESTD- D4S338	--	--	---	---	TTTTCTGTTTACCTTGTTCAGATCCTTCAGAGGAATCCCTATATATGGCAGGTATATGAAATGATTTT CTTAAACAATAAACTTGAAAGTCCAAATTTACTCCTTGATCCATGGACTGCAGAAATAAATGTTATTT TAGCTGTGAGAAAAACAATACTAATCTTGTCATATGTTTCATCAGAGCCCTTGGGTGACCCAGGTGTATT GCCAATAAGCAGTAATAATTTGAGAGGAATCTTGTTTTCATGCAGTAG
ESTD- D4S95	--	--	---	---	CTTTCATGCACGATAGGCTTCTCTACTAATCACAGAAATTTTGAGAGAGCAAAACAACCTTTCAGG ATAATGGGCAATCACCTTCTTCTCTTTAGAGTCTACCCG

ESTD-D7S399	--	--	--	---	---	TGAATCTTAATTGCTATCTCTACAAAATGTATAAATCCTGAATCTGACATCTAGCCACCTCCATAGAT AACTGCTAGAGACCCAGTCTCCTACATCATCCTTTTACAAACATTTTCATCCATGGACTCCATACTAG AATAATTTGAAGAAACAACATGACAAACATTTTC
ESTD-DM	--	--	--	---	---	GTGGGACACCGAGGGCTCCAGGCTGGGCGCTTGACAGTGTGGCTCAAGAGCTGCTCGGCCTCCACT TCCATGGGTGTGGGCTGGGACCTCACTGTCCCTGGGAGAGGAGGGAGTGGGGAGGGAGACA GAATGCTGATTATCTGTGGAGAACCAAGTCTGTGGCTGTGGTGGGAGCTGCTTCCAAAGACC TCCTGATTTGAGGAAGGGAGCAGCAGAGCGGAAGAGAACAGAGT
ESTD-DRD1	--	--	--	---	---	TCCCCAGCCCTATCGGTATATTGGACTATGACACTGACGTCTCTCTGGAGAAGATCCAAACCATCAC ACAAAACGGTCAGCACCCCAACCTGAACCTCGAGATGAATCCTGCCACACATGCTCATCCCAAAAGCT AGAGGAGATTGCTCTGGGCTCGCTATTAGAACTAAGGTAC
ESTD-DRD2	--	--	--	---	---	TCTGCCTTTGGTGAGGAGGCTGCCGGCGAGCCCCAGGAGCTGGAGATGGAGATGCTCTCCAGCAACA GCCACCCGAGAGGACCGGTACAGCCCCATCCACCCAGCCACCAAGCTGACTCTCCCCGACCCG TCCACCAAGGTCTCCACAGCACTCCGACAGCCCCGCAACCAACAGAGAAGATGGGCATGCCAAAG ACCACCCCAAGATTGCCAAGATCTTTGAGATCCAGACCATGCCCAATG
ESTD-DRD3	--	--	--	---	---	AAGACGATGGCCAGGATGAGCGGCAGTAGGAGAGGGATAGTAGGCATGTGGCGGCTGGCTGG CACCTGTGGAGTTCTGTGCCCCACAGGTGTAGTTACGTGGCCACTCAGCTGGCTCAGAGATGCCATA GCCACAGGAGGTGCGTGATGCCAAGGGGCTTCTGTGAGGAGA
ESTD-ERB2	--	--	--	---	---	TCTTCAGGATCCGCATCTGCGCCTGGTGGGCATCGCTCCGCTAGGTGTACGGCTCCACAGCTGG GGTGAGGGGGTGGTGGTCAGTGCCGGGGGCGGTGCAGACCCACGCGGCTGGGAGGACTTCACCC CGCCTCACCTCCGTTTCTGCAGCAGTCTCCGCATCGTGTACT
ESTD-ETS2	--	--	--	---	---	ACTCACAGTCTTTAAGTGAAAATGGTCGAGAAAGAGGCCACCAGGAAGCCGTCCTGGCGCTGGCA GTCCGTGGGACGGGATGTTCTGGCTGTTTGAGATTCTCAAAGGAGCGAGCATGTCTGTGACACAC AGACTATTTTAGATTTCTTTTGGCTTTTGCAACCAAGAACAGCAAAATGCAAAAACCTCTTTGAGAGG GTAGGAGGGTGGGAAGGAACAACCATGTCTTCAGAAAGTTAGTTTG
ESTD-F2	--	--	--	---	---	GATAAGTACACTGAGGCCCCAGGAGGTATTGCCTAGTAGCCCAACTGTGCATGCACGCTTAACCTCT GCACCAATGGCTCCAGGCCCCGTAGGGGAACCTGGGGGATCTAGGGGATGGGTAGGAATGGCCC AGCCAGTCCCGCGGTGCTGGTCCCAACAGAGGAGGCCGCTGGAGGAGGAGACAGGAGATGGGC TGGATGAG
ESTD-F9	--	--	--	---	---	AGATCCTGATGATTTTTCTATTTTTCTAAATGTTTTACAGTTTTGAAGTTTTAGATTTATGCCCA TGCTCCAATTTGAGTTAATATTGTGTAAGTATGATGTTTAAGTCAAACTTCATTTTTTTTCCATA GGTATGTCCAAATTTATCCAGCACAAATTTGTTAAACAAAAAC

ESTD- GDH	--	--	--	---	---	CGCAGACCGGTACGTGTGGGGTCGGGAGTGTGGAGGGAAGGAGGGAAGTGGGGTTAGGGACT TTCCGGGTGACTTTCCCGTTCTGTCTTCAGAGAAAGCGGGAGAACACAGAGCCAACTGGCTAA GTGAAGGGACCTCTGGTCGACCGTGTCTGTGTCGCCCTGTTACAGTGTCTGTCTGCGCAGTCGA CTGTGTCGCCGGAATTCGAGAGCT
ESTD-GCK	--	--	--	---	---	GTTTATGTCATGGCAGCTCTAATGACAGGATGTCAGCCCTGCTGAGGCCACTCTTGGTCACCATGAC AACCACAGGCCCTCTCAGGAACACAGTAAGCCCTGGCAGGAGAAATCCOCACCCACACCTGGCTGG AGCAGGAATGCCAGCGCGCTGAGCCCGAGGAGCAGGCTAGGATGTGAGAGACACAGTCACCC TGCAGCCTAATTACTCAAAAGCTGTCCCCAGGTCACAG
ESTD- GNAT2	--	--	--	---	---	GACCCCTGAGTACCTCCCTAGTGAGCAAGATGTCTCCGATCCAGGGTCAAAACCCACAGGCATCATG AAACCAAGTTTTCCGTCAAAGACTTGAATTCAGGTAAGTGCATGGTTCCTAGG
ESTD- GPPK2L	--	--	--	---	---	AGTCTTCATCTGCGGTGCCAGGTAGATCCCTTTCACCGCCGAGAACTGCTCGATATC
ESTD- HRAS	--	--	--	---	---	CTGGGCTGCCCCGAGAGCTGTGGCACTGTGACGGCGCGCCAGGCTCAOCTCTATAGTGGGGTCG TATTCGTCCACAAATGCATCTGGATCAGCT
ESTD- HSD3B1	--	--	--	---	---	TTGAAAGTTCTCCACTGTTAACCAGTCTATGTTGGCAATGTGGCTGGGCCACATTTCTGGCCTTG AGGGCCCTGCAGGACCCCAAGAGGCCCAAGCATCCGAGGACAGTTCTACTATATCTCAGATGACA CGCCTCACAAAGCTATGATAACCTTAATACACCTGAGCAAGAGTTCCGGCTCCGGCTTGATTCC AGATGGAGCTTCTCTTATCCCTGATGATTGGATTGGCTTCCCTGCTG
ESTD-HT2	--	--	--	---	---	GGGTAAATTTCCGAGCACTTTGCATAGACTGTTTATTTGACTTGACAGGATTGCTAGAGATAGG CAGGAGAGGAAGATGTGTACAGTTTGTGAGAGAGATAAAAGGATAACCTGGGGTTTTCTGTGC TTTGCTTCTTACATCCCTGGGGAGTTAATAGCTGCAATTTTCAAAGAACGGTATACAGGGACAGCA AAGCGCAGTGTGAAGTTTCAAACAAGACACACCTT
ESTD-HT4	--	--	--	---	---	ACCAACGAGCCGCGATACAGACACTCTTAAGTTTGGCCCTAAGGCTCATTCAAATCATTAGGCATTTT CTGATAAACTAGGTTCTTGGGTGCTTCTATCGCAAGAATGCGTACTTATTTGAATAGTAGAGGTAA ACCACAGCCCCCAAGAGTCACTGAGACTGGCAGCTTCTGACGAGCGGTGAACCCCGTAGCCTAAA TGACAGCCGAAGAGGGCGCGAAGACATGCAGATGTGC
ESTD-HT5	--	--	--	---	---	AACACACAAGCCCCAGCGAGAAATTGAACCTCGGACCCCTGGTTTACAAGACCAGTGTCTAACCCCT GAGCTATGGAGCCCTCGTCTGTGTGTTTCTTCCCTTTCATCTTATAGATTGATGTTATGCTCCTA GCATTCGGCTACCGAATAGATGTTAGCTTGAGTAAATCCAGGATATCTCTCTACAAAATGAAA ACATTTCTGTCTGTAAATCCCTCGAAAAGGTTCT
ESTD- IGFBP1	--	--	--	---	---	ACCCAGTGGAGCCCGCTCATTTGCACGGTCTTGGCAGGAGGTGCCCTGGGAGAAGAAGGAGATGTT CAGGGCACACATAGCTTAGTGGAGACTC

ESTD- IGHV4-6	--	---	---	---	TTTACTATTTCATGGATACAGAAATTGTGGGAGTCACTATATCTTATGAACAAAAATTCAGATTT CAGTGTAAAGTAATGTTGCCTACATTGTGTGAGTGACGGGCGAGTGGTGATCCGAGAGTGTGGTGG TGCACGGACATAATGATTCAGAAAGCAATATGGAAGATGAGTATCTATGGATACGAACCTGAAAGT ATGTAATACTTCACAAAATACTAATAAACGGAGTTGAATATAAAACCCA
ESTD-IL1A	--	---	---	---	CAAAGTAAGCACCCCAATAAATGTTAGCTATTACTATCATATTATTATTATTTATTTTATTTTG AGATGGAGTCTGGCTCTGTACCCAGGCTGGAGTGAGTGCGACAACTCTCGGCTCACTGCAAGCTCTG CCTCCTGGGTTTCATGCCATTCTCTGCTGCTCAGCCTCCGAGTAGCTGGGAATACAGGCCACCCGCACT GTTCCCGGCTAATTTTGTATTTTGTAGTAGAGACGGAGTTCACCGT
ESTD-IL1B	--	---	---	---	CCACTTACAGATGGATAAATGGGTACAAATGAAGGGCCCAATAGCCCTCCCTGTCTGTATGAGGGTGT GGGTCTCTACCTGGGTGCTGTCTCTGCTCAGGAGCTCTCTGCAATTGCAGG
ESTD- KRT10	--	---	---	---	CCAAAGTTAAATAGTATTGGAGTTATCTGAGAAATTTTCCATGTCAAGTGTACCTTTTGGCAATATT AAAGGAAGAAAATGCATTTTAAAGTAAGTAACTGCTAAGTTTTTCCATTAAACCACTATTACTTCTAAG AGAACTGTACATGACAAATATTGCCATTACATGAGATCAACTATGTAGCTGCTTTTAAATAGTCTC TGCCAGATACATCTCCCTATATAAGTTAAACAGTATTGATA
ESTD- KRT8	--	---	---	---	ACCTCACCCCTCCCTTAGCCGTGGGAAGCAGGAATCTCTCCAAATCCATGAATACACATCGG ATTGGACACCTTGAGAGTCTTAACAGCAGGGCTTGACATGAGACCTCAGACAGAACTTTCTAGAGTT TGCTAGAGGTCAAGGTCAAGACTAAAGAGGGCCAGATGTTAAGTACAAAAGTGAGGCCCATAG GCTGCCATCTCTCCGCTCAGGTTTACCAGTCAACATTGACACA
ESTD- LF79	--	---	---	---	GGGTGATTTTGAGGCTCAGTTAATATTTCAAAATTTGAACCGTAGCAAAAGTGCATTGGTATTAGA AAAAATAAAATTTCCAATATGTAGTGTGTGTATACCTGCTGCTGCCATGCAGCATCATAGCCTGT GGGAACCAAGGAGGCTTCCCTTACCACCCAGA
ESTD- LMP2	--	---	---	---	TACACACTTTCCTTACCCTTCACTGAAAACGACTCGCAAACTGGAGCCTGTAGGAATGGAGTTGA CCTTCCCAAAAGCCACTATGATAAGCTATTGGTG
ESTD-LPL	--	---	---	---	TGTCAGTGTCCCTAGGGGCACCTCACCACTCCAGCTTCTCAGCTCTGGCTGTCTGCTGCTGCA AGGTTTTGCTTAATCTCAATCAATGCTCTCTCACTTTTAGCAGCTGTGGGTTTTGTTGTTTC TTCTGTTTTGCTTAGTATCTGACTACTTTTTTAATTATAAAAGAGATGTATCTAAACAAAATAGAG ATTGTTATCAGAAGTTCACAACAATTTATAAAATTTTTCACCTG
ESTD-MCC	--	---	---	---	TTGTCAGGAGTGTGTGATGCTGCTCCCGAGCTGTCTGCTCCCTAGCCGAACCTCAGGACAACGTGCAG CATCCATGTAGGAGAGCCCTTAGTCAAGTGAATGCTGAGGAAGCAGTAAACAGCATGCATCCCCGAA TCTCAGGAAGTCTCTGCTTTCCCAAGGTTTGGTCTAAGTGTGATTACCCCGATTCTTCTGACGATC TTTCAACTGCTAGAGCATCTGGTTCCTGTTTAGCATG
ESTD- METH	--	---	---	---	
ESTD-NF1	--	---	---	---	ATTATCCAGATGAATTTACAAAATATACAGATCCACAGACTGATATGGCTGGT

ESTD- NFKB1	---	---	---	---	---	AACATGGACTTGATATTTGTACAAAAAAGTTTATTTTTCTAAAAAAGAAAAAGAGAAA AAATTTAAAGGGTGACTATATCCACACTGCACACTGCCTAGCCCAAAACGTCTTATTGTGGTAGG ATCAGCCCTCATTTTGTGTTTGTGAACCTTTTGTAGGGACGAGAAAGATCATTTGAAATTTCTGAG AAACTTCTTTTAAACCTCACCTTTGTGGGTTTTTGGAGAGGTTATCA TGTCCTTAGGCCAGCCCTGCTTGCTCCTCCCTGGCTGTTATCTTCAGTACTGCAAGAGAACACAGAC AT
ESTD- NPPA	---	---	---	---	---	GGAGGAGGAGGTGGGAGGGGGTGTCTGTCTCCAGGTCCACAGACCAGAGAGCGGCTCAGTG TATCCCAACCCCAATGTGGGCGCTGGAGATGAAGAGGAGTTGATGCAGGT GTGTTTTCTTAATCTTTCCAGGAACACACAGTGACCATATTTCTTTCTCAGGCATATAGAATTTGGT GGGTTTTCTTTATGTAGGGTGATATTGGATCTTTTGTGTTGATTATATAGCAATTTGAGGG ACAAACCATAGGAGAGAAATGGGCTTGAATAGTAGATGCTTATTTAACCTTGGCAATAGCATTTGC ATTCCCTGTGGTTTTTAATAAAAT
ESTD- OTC	---	---	---	---	---	GTGACCTTCTCATTAAAAAATTTACCGGAGAGAAATTAATATATGCTATGGCTATCAGCAGA TCTGAAATTTAGGATAAAACAGAAAGGAGGATGTAACA GCCACCACCCACCCAGCACACCTCCACCTCAGCCAGCAAGTTGTTGACACAAGAGAGCCCC TCAGGGCACAGAGAGAGTCTGGACACGTGGGAGTCACTGATCATCGGAGCGCGCGGCAC ATGGCAGGATGAGGAAAGACCAAGAGTCTCTGTTGGGCCAAGTCTTAGACAGACAAAACCTAG ACAATCACGTGGCTGGCT
ESTD- PAH1	---	---	---	---	---	CTCTCAGGAACCCAGTCTTCTTACCAACACGACTTATGCTGCCGAGAGGTACAACCCGTAGA ACTTCTTCTAAGTAAATTTAGTTAAAGGAATCGAACTGGCTCTGAAAGACATGGAGATACTGCCT AATCGACTGGCTTTCATTAGCTCTGTGAGTGTCTTCTTACCTTTCTGTGTTCTAGAACGTTTTCTAG GACTGGCAGTTTAAAGCTTTCAGTTAGGCTTCTGTATACCCATGCCC CCTTCTCATGCCAGATGGAATCCAGTCCCTCAGGATCTGCTAACCTGTGACAGTCTAAAGAGT CTGAGCCGTGGCTGGGAGGGCAGGACTAATCCAAATCTTACCCGAGCTTGCTCGCATACAGACG GACAGTGTGGTGGCAACATTGAAAGCCTCGTACC GGGAGTAAACCTGGATTGGGAGATTTTCTACAGTGTCTGGTTGGTAAAGCCTCAGCAACA GCCAGTGGAGACTGGAACACACCATAGCCTATTTCTGAGCCATATTAATTTGTTGTGCCCTTACATT ATTACTCTTGCCATTTTCAAGAAAGCATTTGCCAGCTCTTCCAAATCTCCATCACCCTTTGGGCTTGT CTACTTTGCCACAGATTATCTTGTA
ESTD- PS-1	---	---	---	---	---	ATGAAACATGGTCTTTAATTTATGATATGTTTGTATAGCTATCTTAAAGGGCTCTTTTTTTTA ATGCAGAAAGAGGGGAAAGAGCGAGCTGTGGTGACAAAGGTGTTTTCTCAAGGCTCATACAGA TTCTGAAATCATGTGTCCTTAGAACATTTTGTAAAGAGGTAAAGTCTTATGAAATTTATAATCTT ACCTACAGACGCTGCTGGATGGTGTGTCACACCCGAGGAATCTGAGAGCGAGAGCAGGGCTGGCTG CTGGAGAGAGCGTGGCGGAGACCTGGAAGGCT
ESTD- PMP1	---	---	---	---	---	
ESTD- Pir/RDS	---	---	---	---	---	

ESTD-RDS	--	--	--	---	---	CCCGAGGAATCTGAGAGCGAGAGCGGGCTGGCTGCTGGAGAAGAGCGTGCCGGAGACCTTGAAGG CCTTTCTGGAGAGTGTGAAGAGCTGGGCAAGGCAACAGGTGGAAGOCGAGGGCGCAGACGCAGG CCAGGCCCCAGAGGCTGGCTGAGGGCCCTGGGCCCCCTCCCTCCCGAACACTGAGAAATAGTGCACT CCAAGAAACGTGGATCTCCCCCTCATCCAACTCCGAAAAGTCTGAA
ESTD- RVR1	--	--	--	---	---	CTTCGTGACGGGAGGTACGTCCTCCGCCCTTTTCATGGACATATGGATGAGTGTGACCAATTTCCC CTGCTGACAGTGTATACACAGCGCAGACTTGCTACTATGAGAGGGGAGCTGTGTGCACTCATGCCCGC TCCCTCTGGAGGCTGGAGCCACTGAGAAATCAGCTGGAGTGGGAGCCACCTGCGCTGGGCCAGGCCACT COGAGTCCGGCATGTCACTACCGGGCAGTACCTAGCGCTCACCGAGG
ESTD- SPTB	--	--	--	---	---	TGAACACCCCTGTGTCGGAGCCAGGTGTGTTTCTCCTGGAGCCTGAGGAGTTTGTGTGTGTG CAGTCCCCCGGCCACCTGCTGTTGAGCCTGGACATACACCTTCACTCTTGGCCCGGAGAGAC ATTTACCCACCTGGCCATGTCCCTGGCCTGTTGTGCACACCTCTGTGAAGACCCCAACCCCTGCCTCC CCCACCCAAAGCCAGTTTCTAGCAAGGGCAGGAC
ESTD- SSA1	--	--	--	---	---	TTCACTTTGTGGATTGTTTCTTTTGTGTGCAGCACCTTTTCAACATGATGTGATCCCAATTTGTCCAAG TTTGCTTTGGCTGCCCTGTGCTGTGGGATATTGAAGAGATCTTTGCCAGTCCAATGTCTAGAGAG TTTTCCCAATGTTTCTGTAAATAGTTTCAATAGTTTGAAGCCCTTAGATTTAAGTCTTTAATCCATTTTG ATTTGATTTCTGTA
ESTD-TAT	--	--	--	---	---	AAATGGTCAGGACCCCTGATCCACAAGAAGTGGTACCAATTTATCAGGGCCCATCAGTTCAATCAGCTC CCATGACTGGGATGCTAAGTCAGCAACTGAGTTCAATTCATCTTAAATGACTTGTGGACAGGATCA ATTTCTCTCACTAGAACGTTTGTTTACAACCTTTCTCCAGTATGGATGGGATATGATGGGGG GAGAAGCAAAATTTAAATAGGACCCATGAGACATCA
ESTD- THRB	--	--	--	---	---	TGCGGCCCTTCTCCGGCAGGGTAGACTTCTTACTTGGCTGTGATTTCCAAGAGAAGAGTCCCAAG CACACGAAAACAGAAAGTGCAGATCCCATGAGGCCAGTCTCAATCACACAGGATCACTTCATCCA CACTGGATTGGCCCAACAAGTCTGAGTGCCAGCCAGGACTCAACGGTCCCTGTAGATGGG
ESTD- TNFA	--	--	--	---	---	TTCTGTCATCCTGTCTGGAAGTTAGAAGAAACAGACCACAGACCTGGTCCCCAAAAGAAATGGAGG CAATAGGTTTTGAGGGGCATGAGGACGGGTTTCAAGCTCCAGGGTCTACACACAAATCAGTCAGTG GCCAGAAAGACCCCTCAGAAATCGGAGCAGGAGGATGGGGAGTGTGAGGGTATCCTTGTATGCTT GTGTGTCCTCAACTTTCCAAATCCCGCCCCCGGATGG
ESTD-TYR	--	--	--	---	---	TAGTGAAGTTTTCATCTCCTGTGAGCTTCTGGATTTCTGTTCCACCCGCAACAAGAGTCTATGC CAAGGCAGAAAAGCTGGTGTCTCATGGCAAAATCAATGTCTCTCCAGATTTCCAGATCCCCCAAGCA GTGCATCCATTGACACATAATAATGCATCCAGACAAAGAGGTCAATAATATTGATGTCGTTAAACAT GGGTGTTGATCCATTTTCAATTTGGCCATAGGTCCCTATGGGGATGACA

EST11458 6	--	--	--	---	---	CCACITTTGGTAGTCCAGTGTGACTCATCCACAATGATTTCTCCAGTGTCTATCTTGTCTCGAGTTTT CTCTGCCATGTTGCTATTGCAGGACGGACCTGTCCCAAGCCAGATGATTTACCATTTTCCACAGTGGT CCCATTAACAAACATTCTATGAGCCAGGAGAGAGATTACGTATCTCTGCAAGCCGGGCTATGTGTCC CGAGGAGGGATGAGAAAGTTTATCTGCCCTCTCACAGGACTGTGGCC
EST39852 8	--	--	--	---	---	CGGTCTTCTTCCAGGTATTGTTGCAGAAGGCCGAGATGACCTCTATGTCTCAGATGCATTCATAAG GCATTTCTTGAGGTGAGTACACCTTCCCACTCTCTTACGGTACAGAAAGGAGATGCATGAACAGCA GGAACACGTGGAAAGGCCTGTTTCCAGTGTAAAGGCATGCAAAAGGCCTCCACAGGCTGCTATAAT ACAGCCCT
EST62448 0	--	--	--	---	---	AOCTGGTGTGCTGGTGAACCTGGTCTCTTGGCATTCGGGCTTCTGCGGCTTCTGCGGCTGCTGG TCCTCCTGGTGTGGGTAGTCTCTGGAGTCAACGGTGTCTCTAGTGAAGCTGGTGTGATGGCAACC CTGGGAACGATGGTCCCAAGTGGTCAACCCGACACAAAGGAGAGCGGTTACCCCTGG CAATAT
EST36027 2	--	--	--	---	---	AGTGACTTCCAAGGAAATGGCTACCCAACTTGCCTTCATGCGCTGCTGGCCAATATGCCTCTCAGA ACATCACCTACCCTGCAAGAACAGCATTGCATACATGATGAGGAGACTGGAACCTGAAAAAGG CTGTCACTTACAGGGCTCTAATGATGTTGAACCTTGTGCTGAGGCAACAGCAGGTTCACTTACACT GTCTTTAGATGGTGTCTTAAAGACAAATGAATGGGAAAGACAA
EST12274 0	--	--	--	---	---	CCCCAGTTGACAGCCACTGCTCTAGACTAAGTTTCTTCTTCCAAATAGAGCCTTACCAAAGTGAT TACATAAGAAAGTCAAGTGGTTTACTCCTCATGACCAATATCTTCCCTCCTTAGGATGAGGTGA TAGTAATGACCGATGGGTGAGAACTGTCTCTGTCACCATGGAGGATACTATAACTGTGAAGATAA ATTCAGCCACAGAGCTTGCCAGATC
EST76807 7	--	--	--	---	---	ATGTAAGGGGATCGGACATGAAAGGACCCCTGTGAGCCGATTGTCTATCTCCAGCGGCCCTGTCTATC CAGCTCACTCATCAATGGGGCCAGTCAGGCCAGGCACTGGGCTCCGAGGACTCACCACTGCCCCCT GCTGCCATGTGGACTGGTGCAAGTTGAGGACTTCTTG
EST44438 7	--	--	--	---	---	GCAGCCAGGAGCCGCTGCACCATGCCCGCATAGATGCGGACCTCAAGCTCGACTTCAAGGACGTCT GCTCCGAOCTAAGCGGAGCAGCCTCAAGAGCCGAGCGAGGTGGG
EST12839 3	--	--	--	---	---	TGCAAAACACACAAAATCTTCTCCAGATGCCCTATGGCTGTGGAGAGCAGAATATGGTCTCTTTGCT CCTAACATCTATGTACTGGATTATCTAAATGAAACACAGCAGCTTACTCCAGAGATCAAGTCCAAGG CCATTGGCTATCTCAACACTGGTGAATGATGAGTAAGGGAACCTTGAATGTTATTCAACTGG ATTTCCAGTAGGTTTCAGTTACTTATGAATATTATGATACCTTAGCTTAG
EST54419 8	--	--	--	---	---	CTTCTGCCTAATTGAATGATATTGTTGCTGTGGGACCTGAGCAGCTTTTATGGCACAATGATCACTA TTTTCTTGACCCCTACTTACAATCCTGGGAGATGATTTGGGTTAGCGGTGCTGATGTTGTCTACTA TAGTCCAAGTGAA

EST10398 2	--	--	---	---	---	TGCCTGGGGTGGCAAGGCTGCAACAAGGAGGCAACCCAGGAGGCTTTTATGAAGCGGGCCATGGTA AGATGCTGCCACCTTATCTACTTATGATGATGTTACATTTGGGCTTGACTTTCCAACACGGAGAAG CATTGTTTCTTCGGGCAAGAAGGTATCTACCAATAGTGTCTATTAGGCATTG
EST36751 7	--	--	---	---	---	CCAAGTGGTTCAATTTAGCTTTGCAGGTTTAACTCGATTACTTTTTCTATTCAAATCTCTGTAAAA TTGAAATATGAACCTAGTTTCTGATCTATGGTTCAAGTTAAACAG
EST40582	--	--	---	---	---	CACGTGGAAGGAGGCTATTTTGGAGGCTTTAAGAGTAAAGAACTCTGCCCAAACTTTGTGGCTGAC TTTATGGCTAAGAAGTTTCACTGGATGCTAATAACAATAATTTTACCTTTTGAAAAATAAATG AAGGATTTGACCTGCTCGCTCTGGAAGAGTATCCGTACCGTCTGACGTTTGAACAATAACAGAT GCCTTCCCTGTAGCAGTTTTCAGCCCTCTACCCCTA
EST18288 3	--	--	---	---	---	GCTCTATACCCCTGTGGTCTCCACGCTCTCTGGACTTCACAGAACTGGATGTTGCTGTGAGAA GATTGACAGTTTCATGACGGCTGTGACAGGATGGAAGACTGGCTGCTCCCTGACGGGAGCCAGTGTGG ACAGACCCCTGGCTTTCAACACCTAGTCCACTTCCAAGGTAAGGCAACCTCTCTGCTGGCTCTGGC CCTAGGACTTAGTATCC
EST70523 3	--	--	---	---	---	TTCCGCCAGCCCCCATCTTGGCACCCCTGGTCCCTCAGGGGCCACCCCGGCACTCAACCGCTCT CGCTCTCGGTAACATCCGGCCGGCGCGCTCTTGAGCACATAGCCTGGACCGTTTCCGTATAGGAGG ACCGTGTAGGCTTCTGTCCCGGGCTTGCAGGGCCAGCCCTGCAGAGAGAGGGGTCCCTGTGGT TGAGCTGAACACAGCTGTGGAGTGTCTCCACGCTG
EST58707 7	--	--	---	---	---	CAGTGTATCTGGAAGCCTACAGGACACCAAAATAACCTTAATCATCAATTGGTTACAGGAGCTTT AAGTTCAGCATCTTTGGCTCACATGAAGGCCAAATTCGAGAGAGCCCTAGAAGATACACGAGACCGA ATGTATCAATGGACATTCAGCAGGAACCTCAACGATACCTGTCTGTGTAGGCCAGGTTTATAGCA CACTTGTCACCTACATTTCTGATTGGTGGACTCTTGCTGCTAAGAACCTT
EST74167 6	--	--	---	---	---	AGACCATGAAGGAGTTGAAGCCTACAAATCGGAACCTGGAGGAACAACCTGACCCCGGTGGCGAGG AGACGGGGCACGGCTGTCAAGGAGCTGACGGCGGCGAGGCCCGGCTGGCGCGACATGGAGGA CGTGGCGGGCGGCTGTGTGAGTACCGCGGCGAGGTGCAGGCCATGCTGGCCAGACACCGAGGAGC TGCGGGTGCGCTCGCTCCACCTGGCAAGCTGGTAAAGCGGCTCCTC
EST43211 8	--	--	---	---	---	CGCTGTGGAGTACCGGCGGAGGTGCAGGCCATGCTCGGCCAGAGCACCGAGGAGCTGCGGGTGCG CCTCGCTCCACCTGCGCAAGCTGCGTAAGGGGCTCTCCGCGATGCCGATGACCTGCAGAACGCGC TGGCAGTGTACAGCGCGGGCGCGAGGGCGCGAGCGGCTCAGCGGCATCCGCGAGCGGCTG GGGCGCTGTGGACAGGGCGGCTGGCGGCGCGCCTGCTGGGCTC
EST36770 1	--	--	---	---	---	TGTAGCCAAAGTCACCTGCATCATTTTGGCTGTGGCAGGCTTGGCCAGTTTGCCAGCTATAATCC ATCGAAATGTATTTTCAATTGAGAACACCAATATTACAGTTTGTGCTTCCATTATGAGTCCCAAAAT TCAACCTCCGATAGGCTGGGCTGACCAAAATATACTGGGTTCTGTTTCTTCTGATCAT TCTTACAAGTTATCTCTATTGGAAGGCCCTAAAGAGGCTTAG

EST26021 1					TAATGTAAGCTCATCCACCAAGAAGCCTGCACCATGTTTGAGGTTGAGTGACATGTTGAAACCTGT CCATAAAGTAATTTGTGAAAGAAGGAGCAAGAGAACATTCCTCTGCAGCACTTCACTACCAATGA GCATTAGCTACTTTTCAGAAATTGAAGGAGAAAATGCATTATGTGACTGAACCGACTTTTCTAAAGC TCTGAACAAAAGCTTTTCTTCTTTTGCACAAGACAAAGCAAAGCC
EST51212 0					ATCCTGAGCTCGCCAATAAGCTTCTTGTTCTACTTCTCTTCCACAGCCCCAATTTCACTTTCTCA GAGGAAATCCCAAGCTTAGGAGCCCTGGAGCCTTTGTGCTCCCACTCAATACAAAAGGCCCTCTCT ACATCT
EST20118 2					GTCCGAATCCTCCTCTGAAAGTGCCGGGTTAATCTGCTCATGACGCTGGGCTGTGGTCCAGCT GAGGTGAGGGGCTTGAAGCTGGGAGTGGGTTTAGGGACGCGGTCTCTGCTGCATCTTAAGCTCT GAGAGCAAACTCCCTTGAAGCTGGGAGTGGGTTTAGGACGCGGTCTCTGCGTGCATCCTAAGCT CTGAGA
EST53018 6					ACAATCCAGGTCACACATTCAGAGAAGGAGGGTGGTCAAGTGGTGGTAGGTCCAGTAATCCA AGGATTCAGGAAGGAGGCCACAGAGATCGAAGTTAGTGAAGTC
EST68787 5					CTTCTATGGGATTTGACTTTATTTCTCCATTGCTTACCTTTTACAGGTGTTAATATAGTGAAAAG GAAGCTTGACGCTCATGACAAATTTGAAGCTGACAATTACACAAGAGGAAATAAATTCACAGTCAA AGAAATCAAGCACTTTTCGAAACATTTGAAGTTGTTTTGAACCTGGTGCACCTTTAATTACAACCTAG CAGACGGAACTGAACCTCAGGGTAAGAAT
EST34088 2					GTGGGGCAACAGTGGGAGAGAAGGGCCAGGGTATAAAGGGGCCCCACAGAGACCGGCTCAAGG ATCCCAAGGCCCAACTCCCCGAACCACTCAGGGTCTGTGGACAGCTCACCTAGTGAATGGCTACA GGTAAG
EST37382 3					CTGAGAAACAATTGGCAAAATAAAGGAATTTGGCACTCCCCACCCCTCTTTCTCTCTCCCTTGGA CTTTGAGTCAAAATGGCCTGGACTTGAGTCCCTGAACCAAGCAAGAGAAAGAGGACCCAGAAAT CACAGGTGGCACGTGCGGTCTACCGCATCTCCCTTCTCACGGGAATTTTCAGGGTAAACT
EST74082 ---					TCCAGGTGGCTGGACCCAGGCCCCAGCTCTGCAGCAGGAGGACGTGGCTGGGCTCGTGAAGCATG TGGGGTGAGCCAGGGGGCCCCAGGACGGCACCTGGCTTCAGCTGCTGCTGAGCTGCTGCTGCTC CCAGTCACTGTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT TGGGACCTGACCCAGCCGACGCTTTGTGAACCAACACCTGTGGG
EST45311 ---					GCCCTCCTCTCTTCCAAATCTGTCCCTATAGTTTTCCTCTATTAGTGAACATGACATCTTTTAGT GGATAGATGCACACAAACACAAAGCCATTATGGGAAGGATCCACGTGTGGCCATATTGTAACA CATTTTCTGCAATCACCTCTTTCATTTAACAGCCCTTATTCATGGCCCTTTTCTTTTTCAGTAGTA CATACACATCTGTGTCATTGTGAAT

EST65258 8	---	---	---	---	---	TGCCCCATCAGCGCGGAGACATGGCTTGGCACAGCTTGGAGGATGTCACCAATTAACAGAAAT CCAGTTATTTCCACCCCTAAATGACAGCCATGCCGCGGCTTCTGCGGGCTCGTCGGGGG ACAGCTCCACTCTGACTGGCACAGCTTTGTCATGGAGACTTGAGGAGGAGGCTTGAGGTTGGTGAG GTTAGGTGGTGTCTCTGTGCAAGTCAGGACATCAGTCTGATTAA
EST38216 3	---	---	---	---	---	ATGCAGGATGAAGGTGGACAGGAGGAGAGGGGCAACCTGTCATCCCAGGGCTGCAGATGTCGCTG GACTATGGGTTTGTGACCCCACTGACCTCCATGAGCATCAGGG
EST62782	---	---	---	---	---	ATACTAGTACAAGTGGTAATTTTGTACATTACACTAAATTATTAGCATTTGTTTAGCATTACCTAA TTTTTTCCTGCTCCATGCAGACTGTTAGCTTTTACCCTAAATGCTTATTTAAATGACAGTGGAAG TTTTTTTCCCTCGAAGTGCCAGTATCCAGAGTTTGGTTTTTGAACCTAGCAATGCCTGTGAAAAA GAACTGAATACCTAAGATTTCGICCTGGGGTTTTTGGTGCATGCA
EST35879 9	---	---	---	---	---	GAGATCGGTGTGTGAGTTATTAGGCATGGTTACCTGTGATCTCCCAATCTTGTGCGTTCCACCGATG GAACTGCCGGCAATCCTGACACGTGTGACCCAGGCTGTACCCAAATTAGTGAACATGGCTTCGAG AGAGTTGAACAGATTCTGGAAGACAGCAGCGGGATGGGGCAGGAGAGAGCTGCCTGGATGAA GGAAAGAGATTTAAGAAGCTTGATTTGGACAATCTGCTTGTGAGTGTGAAGAGTTTCATGCTCT GCCTGAGTTACAACAGAAATCCTTTAGTACAGCAGGAGTAATAGATATATTCGACACAGATGGGAATGGA GAAGTAGACTTTAAAGTAAGAAAGTAGTTATTTTTTA
EST68308 5	---	---	---	---	---	GGAATATTAATAATATTTAAATACCTCCATTTGCTTATCCTTTTAGTGAAGATGATACCTGCAA AAGACATGGCTAAAGTTATGATGTGATGTTGGCAATTTGTTTCTTACAAATCGGATGGGAAATCT GTTAAGTAAGTACTGTTTGGCTTGGAAATGGATTTTAAATGTGACTTTATCAT ATCACAGGCTCTGTGCTGTGGCCATCATTTCTGGGAGAGATGGTGTGCAAGCCCTTTGG CAATGTGAGATTGATG
EST54045 6	---	---	---	---	---	AGGAGAAGCTGAGGAGGGGAGAGAGACAAGAAATGACATTGATGAGTGAAGATGTCGGCTCAGGAT GCCGGAAAATGAC
EST52908 0	---	---	---	---	---	TGAAGCTTCTGCCAGCTTGCATTGTTCTAGGAGAACCCGGTACATACCTTTATCTATAGCCTTCCCC TAGGTCCT
EST19590	---	---	---	---	---	CTCTGGATGGGTTACAGGTGGCAGGACAAAGCCAGTCCATCCTGTAGTCATCATAGTTGTGGCTCC CAAGTTGCTCTCCTCACTGGAGAACAGGACAGCCACATGGCGGGGATGCCGGGAGTTCTGGTCC TGCGGCCACGGCTGTGCCCTCGTTGTGAACGGTAGCCTTTGCGGTTGCGATGCTAAACCTTTGTTCT TGGCAAGGAGGGGGGTGCCATGCCTGAGATGATAGTGGGCC
EST76136	---	---	---	---	---	Legend: 1=Marker 2=PM Position 3=Reference Allele 4=Altered Allele 5=SNP Forward Primer 6=SNP Reverse Primer 7=Sequence

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EQUIVALENTS

While this invention has been particularly shown and described with references to preferred embodiments thereof, it will be understood by those skilled in the art that
5 various changes in form and details may be made therein without departing from the spirit and scope of the invention as defined by the appended claims. Those skilled in the art will recognize or be able to ascertain using no more than routine experimentation, many equivalents to the
10 specific embodiments of the invention described specifically herein. Such equivalents are intended to be encompassed in the scope of the claims.

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CLAIMS

WE CLAIM:

1. A nucleic acid segment shown in column 7 of the Table,
or a portion thereof which includes a polymorphic site,
5 or the complement of the segment or portion thereof.
2. The nucleic acid segment of claim 1 that is DNA.
3. The nucleic acid segment of claim 1 that is RNA.
4. The segment of claim 1 that is less than 100 bases.
5. The segment of claim 1 that is less than 50 bases.
- 10 6. The segment of claim 1 that is less than 20 bases.
7. The segment of claim 1, wherein the polymorphic site is
biallelic.
8. The segment of claim 1, wherein the polymorphic form
occupying the polymorphic site is the reference base
15 for the fragment listed in the Table, column 3.
9. The segment of claim 1, wherein the polymorphic form
occupying the polymorphic site is an alternative form
for the fragment listed in the Table, column 4.
10. An allele-specific oligonucleotide that hybridizes to a
20 segment of a fragment shown in the Table, column 7 or
its complement.
11. The allele-specific oligonucleotide of claim 10 that is
a probe.

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12. The allele-specific oligonucleotide of claim 10,
wherein a central position of the probe aligns with the
polymorphic site of the fragment.
13. The allele-specific oligonucleotide of claim 10 that is
5 a primer.
14. The allele-specific oligonucleotide of claim 13,
wherein the 3' end of the primer aligns with the
polymorphic site of the fragment.
15. The allele-specific oligonucleotide of Claim 10, which
10 is selected from the group consisting of the nucleotide
sequences of the Table, column 5.
16. The allele-specific oligonucleotide of Claim 10, which
is selected from the group consisting of the nucleotide
sequences of the Table, column 6.
- 15 17. An isolated nucleic acid comprising a sequence of the
Table, column 7 or the complement thereof, wherein the
polymorphic site within the sequence or complement is
occupied by a base other than the reference base shown
in the Table, column 3.
- 20 18. A method of analyzing a nucleic acid, comprising
obtaining the nucleic acid from an individual; and
determining a base occupying any one of the polymorphic
sites shown in the Table.
19. The method of claim 18, wherein the determining
25 comprises determining a set of bases occupying a set of
the polymorphic sites shown in the Table.

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20. The method of claim 18, wherein the nucleic acid is obtained from a plurality of individuals, and a base occupying one of the polymorphic positions is determined in each of the individuals, and the method
5 further comprising testing each individual for the presence of a disease phenotype, and correlating the presence of the disease phenotype with the base.